

Appendix C

Data Usability Assessment Report

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Appendix C

Data Usability Assessment Report

The purposes of this data usability and assessment report (DUAR) are to 1) summarize the data validation performed on the data sets for the Historic Site Assessment (HSA) Subarea 5B samples collected, and 2) determine whether the sample results meet the Data Quality Objectives (DQOs) outlined in the *Draft Work Plan/Field Sampling and Analysis Plan Co-Located Chemical Sampling at Area IV Santa Susan Field Laboratory, Ventura County, California* (CDM 2010) (WP/FSAP).

A total of 422 samples including 28 drainage locations, 182 surface locations, and 212 soil boring location samples, were collected and analyzed.

C.1 Usability Summary

For this data usability assessment, 93 data sets were reviewed. A data set consists of 20 or fewer samples grouped together by analytical method for analyses depending on the time and date of when the samples were received by the laboratory. A data set is called a sample delivery group, or SDG. The analyses performed are discussed in Section 2.4.2 of the Sediment Technical Memorandum (TM).

Samples were collected and analyzed in accordance with the WP/FSAP (CDM 2010). No deviations were encountered during the field investigation for the 5B Subarea sampling activities.

The data generated for the Subarea 5B samples together with the added data validation qualifiers are usable as reported, with the exception of 384 individual analyte results (0.38 percent of all analytes) that were rejected (15 individual metal results, 1 total petroleum hydrocarbon [TPH] result, 124 pesticide results, 186 herbicide results, and 48 semivolatile organic compounds (SVOC) results). These rejected data do not impact the overall achievement of project objectives and goals. Specific details are provided in the validation reports in this Appendix and below in Section C.8.

C.2 Data Validation Procedures

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

The data validation strategy employed was to validate 10 percent of the data according to EPA Level IV protocols (all QC parameters and raw data) and the

remaining 90 percent according to EPA Level III (all QC parameters except calibrations and raw data) protocols.

Table C-1 shows all SDGs that include Subarea 5B samples and which SDGs were validated as Level III or Level IV. Some SDGs contain samples from other subareas¹ but all samples in an SDG were validated together.

In order to evaluate the quality of the laboratory and the validation firm, CDM chemists reviewed 10 percent of the Subarea 5B sample SDGs. The purpose of the review was to identify any quality control issues with the laboratory not identified by the validation firm or any discrepancies in validation procedures by the validation firm. No additional qualifiers were applied to the data based on CDM's review.

C.3 Quality Assurance Objectives

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

A review of the collected data is necessary to determine if data measurement objectives established in the WP/FSAP (CDM 2010) have been met. The following data measurement objectives were considered:

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

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

C.4 Summary of Field and Laboratory QA Activities

CDM completed sampling activities in Subarea 5B in accordance with the approved WP/FSAP (CDM 2010) and Addendum to the WP/FSAP (CDM 2011). A total of 422 soil samples were collected and analyzed from 28 drainage locations, 182 surface

¹ During sampling in Subarea 5B, EPA transitioned sampling into other subareas. Thus some sample delivery groups may contain results for sample from multiple Subareas.

locations, and 212 soil boring location samples. Table 2-2 in the Subarea 5B TM provides a summary of the samples collected and the laboratory analyses requested.

Table C-1 in this report presents the SDGs and validation level for the HSA Subarea 5B sample data. An index of samples associated with each SDG is presented at the beginning of the data validation reports presented in this appendix. The WP/FSAP (CDM 2010) defined the procedures to be followed and the data quality requirements for the field sampling events.

C.5 Field Quality QA/QC

Field QC samples, such as matrix spike/matrix spike duplicates (MS/MSDs) and field duplicates, were to be collected at a frequency of 1 per 20 samples (5 percent) for MS/MSDs and field duplicates. Eleven duplicate samples and MS/MSD samples were collected in association with the surface samples and analyzed for primary analytes only. For the subsurface samples, 10 duplicate samples and MS/MSD samples were collected for the primary analyses, and 5 of these duplicate and MS/MSD samples were also analyzed for the secondary analytes. MS/MSD and field duplicate samples met the frequency requirements detailed in the WP/FSAP (CDM 2010).

Nine equipment blank rinsate samples were collected in association with the surface sampling and analyzed for primary analytes. Fifteen equipment rinsate blank samples were collected in association with the subsurface sampling and analyzed for the primary analytes. Five of these equipment rinsate blanks were also analyzed for the secondary analytes. The equipment rinsate blank results are presented in Table C-2.

One field blank sample was collected in conjunction with soil sampling in Subarea 5B. The results for this sample are presented in Table C-3.

Forty-two trip blank samples were collected with the Subarea 5B Area IV samples. The results for these samples are presented in Table C-4. Data qualifications based on blank detections are discussed in Section C.7.3 and in the Appendix C validation reports.

Temperature blanks were included with each shipment of samples.

The number of field QC samples collected satisfies the minimum requirements for the Subarea 5B sampling event specified in the WP/FSAP (CDM 2010) and Addendum to WP/FSAP (CDM 2011). Field QA/QC objectives were accomplished through the use of appropriate sampling techniques and collection of the required QC samples at the required frequencies.

C.6 Laboratory Quality QA/QC

Analytical QA/QC was assessed by laboratory QC checks, method blanks, sample custody tracking, sample preservation, adherence to holding times, laboratory control samples (LCSs), MSs, calibration recoveries, surrogates, tuning criteria, second

column confirmations, internal standards, serial dilutions, laboratory duplicates, and interference check standards. The majority of the laboratory QC sample criteria met project requirements as indicated in the data validation reports in this appendix with the appropriate qualifiers applied. Three hundred and eighty-four individual analyte results (0.38 percent of all the analytes) were rejected as discussed below and in the validation reports presented in this appendix.

C.7 Data Quality Indicators

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

Achievement of the DQOs was determined in part by the use of data quality indicators (DQIs) as described in the WP/FSAP (CDM 2010). These DQIs for measurement data are expressed in terms of PARCCS. The DQIs provide a mechanism for ongoing control to evaluate and measure data quality throughout the project. These criteria are defined in the sections below.

C.7.1 Precision

Precision is a quantitative term that estimates the reproducibility of a set of replicate measurements under a given set of conditions. It is defined as a measurement of mutual agreement between measurements of the same property and is expressed in terms of relative percent difference (RPD) between duplicate determinations.

RPD is calculated as follows:

$$\text{RPD} = \text{absolute value } [(C1-C2)/\{(C1+C2)/2\}] \times 100\%$$

Where:

C1 = concentration of primary sample
C2 = concentration of duplicate sample

Field and analytical precision were determined from the review of the field duplicate results. The sample results were compared by calculating their RPDs. The field duplicate samples were collected in the same manner as the original samples but were collected in separate, individual containers, given separate sample identifiers, and treated as individual samples by the laboratory.

Laboratory duplicate RPD control limits are presented in the WP/FSAP (CDM 2010) or are laboratory specific. For laboratory duplicates, if one or both of the sample results were less than two times the RL, a control limit of the RL absolute value was used for comparison.

The field duplicate RPD criterion is 50 percent. Field duplicates for this project were additionally validated following the criteria where if one result is non-detect and the other result is above the RL, the RPD result is shown as 200 percent and the field

duplicate sample and parent sample results are qualified as estimated "J" or "UJ." If the field duplicate RPD was above the 50 percent criterion (and both sample results were above the RL), the field duplicate and parent sample results for that analyte were qualified as estimated "J."

Qualifiers were applied to applicable sample analyte results during the validation process based on laboratory and field RPD results. Details are discussed in the laboratory validation reports in this appendix. Table C-5 shows the field duplicate pairs and RPD results. RPD results outside of criteria are highlighted.

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

- 49 dioxin results; 11 pesticide results; 9 PCB results; 7 herbicide results; and 5 SVOC SIM analyte results were qualified as estimated based on second column RPD results
- 8 dioxin results; 13 fluoride/nitrate results; 1,897 metal analyte results; 14 mercury results; 8 TPH results; 1 pesticide result; 2 herbicide results; 1 VOC analyte result; 1 SVOC analyte result; and 8 SVOC SIM analyte results were qualified as estimated based on laboratory precision criteria
- 113 dioxin results; 1 NDMA result; 3 fluoride/nitrate results; 40 metal results; 7 hexavalent chromium results; 7 mercury results; 2 alcohol, terphenyl, glycol results; 12 TPH results; 6 pesticide results; 26 PCB results; 9 herbicide results; 13 VOC results; 2 SVOC results; 117 SVOC SIM results; 1 formaldehyde result; and 1 energetics result were qualified based on field duplicate criteria

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

- 6 antimony results based on laboratory precision criteria

There was no discernable pattern or reason for the laboratory and field sample RPD exceedances identified. No field sampling issues were identified from the RPD results that were outside of criteria and the exceedances are reasonable for this type of sampling activity. Sample results that have been qualified as estimated "J/UJ" due to precision criteria are usable for project decisions. Antimony results that were rejected are not usable.

C.7.2 Accuracy

Accuracy is the degree of agreement between a measurement and the accepted reference or true value and is a measure of the bias in a system. Accuracy of the data was assessed by comparing LCS recovery, MS recovery, calibration recovery, Inductively Coupled Plasma (ICP) interferences, and by performing serial dilution checks during metals analyses. Accuracy is expressed as percent recovery (%R), which is calculated by:

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

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

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

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

Qualifiers were applied to applicable sample analyte results during the validation process based on laboratory accuracy results and are discussed in detail in the laboratory validation reports in Appendix C.

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

- 1,740 metal analyte results were qualified as estimated based on inductively coupled plasma serial dilution results
- 50 TPH results; 23 pesticide results; 25 PCB results; 24 herbicide results; 62 VOC results; 31 SVOC results; and 3 energetics results were qualified as estimated based on calibration criteria
- 2 dioxin results were qualified as estimated based on internal standard criteria
- 10 TPH results; 55 pesticide results; 1,001 PCB results; 184 herbicide results; 124 VOC results; 119 SVOC results; and 59 SVOC SIM results were qualified as estimated based on LCS percent recovery criteria
- 11 dioxin results; 2 NDMA results; 230 fluoride/nitrate results; 5 perchlorate results; 3,600 metal analyte results; 4 alcohol, terphenyl, glycol results; 21 TPH results; 10 pesticide results; 3 PCB results; 15 herbicide results; 4 VOC results; 77 SVOC results; 22 SVOC SIM results; 3 formaldehyde results; and 2 energetic results were qualified as estimated based on MS percent recovery criteria
- 6 dioxin results; 4 NDMA results; 6 alcohol, terphenyl, glycol results; 9 TPH results; 375 pesticide results; 273 PCB results; 33 herbicide results; 136 VOC results; 68 SVOC results; 3 SVOC SIM results; and 5 energetic results were qualified as estimated based on surrogate recovery criteria

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

- 15 antimony results based on matrix spike accuracy and laboratory precision criteria
- 1 TPH (EFH [C8-C11]) result based on matrix spike accuracy criteria
- 124 pesticide results based on matrix spike accuracy criteria, surrogate recoveries, and laboratory control sample accuracy criteria
- 186 individual herbicide analyte results based on laboratory control sample accuracy criteria, calibration criteria, and matrix spike accuracy criteria
- 58 individual SVOC analyte results based on matrix spike accuracy criteria and surrogate recovery accuracy criteria

Sample preservation, handling, and holding times are additional measures of accuracy of the data. All sample preservation and handling criteria were met.

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

C.7.3 Blank Contamination

Field blanks (e.g., equipment and trip) and laboratory method blanks are analyzed to identify possible sources of contamination. Contamination of a sample can be introduced by field sample collection methods, sample handling, preparation, and/or analysis. The laboratory validation reports in this appendix and summarized below discuss the results qualified based on field and laboratory blank contamination.

The following individual analyte results were qualified as estimated "J/UJ" based on blank contamination:

- 3,736 dioxin results; 7 NDMA results; 1 perchlorate result; 812 metal results; 33 hexavalent chromium results; 5 mercury results; 6 TPH results; 11 herbicide results; 326 VOC results; 21 SVOC results; 93 SVOC SIM results; and 1 energetic result was qualified as non-detect due to blank contamination criteria

Tables C-2, C-3, and C-4 provide a summary of chemicals observed in equipment, field, and trip blank samples. The validators applied appropriate qualifiers to samples associated with the blanks. Specific details are provided in the data validation reports in this appendix.

The reported sample results were judged to be valid after validation. In general, all detected concentrations were below the RL indicating field sample collection and equipment decontamination activities were adequately performed.

C.7.4 Representativeness, Comparability, and Sensitivity

Representativeness, comparability, and sensitivity are achieved by using EPA-approved sampling procedures and analytical methodologies. By following the procedures described in the WP/FSAP (CDM 2010) for this sampling event and future sampling events, sample analysis should yield results representative of environmental conditions at the time of sampling. Similarly, reasonable comparability of analytical results for this and future sampling events can be achieved if approved EPA analytical methods and standardized reporting units are employed.

C.7.4.1 Representativeness

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

Representativeness also can be monitored by reviewing field documentation and/or by performing field audits. For this report, a detailed review was performed on the COC forms, field data collection forms, laboratory sample confirmation logs, and data validation packages. Laboratory QA/QC requirements were included in the WP/FSAP (CDM 2010) and laboratory statements of work (SOWs) to ensure that the laboratory analytical results were representative of true field conditions.

Field sampling accuracy was attained through strict adherence to the approved WP/FSAP (CDM 2010) and by using approved standard operating procedures for field data collection. Based on this, the data should represent as near as possible the actual field conditions at the time of sampling.

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

C.7.4.2 Comparability

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

To ensure comparability of data generated for the site, standard sample collection procedures and Department of Toxic Substances Control (DTSC)-approved analytical methods were utilized by CDM. The sample analyses were performed by LLI in Lancaster, Pennsylvania. Utilizing such procedures and methods enables the current

data to be comparable with previous and future data sets generated with similar methods.

C.7.4.3 Sensitivity

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

Detection Limits

Each analytical method used during the sampling events was selected because it had potential to achieve target detection limits established for this project. For each analyte, target detection limits were established with the laboratory with the goal to achieve analytical results at or below regulatory comparison criteria.

The MDL is described in the methods and is defined as the concentration of an analyte that produces a signal with a 99 percent probability that the concentration is above that of a blank. A blank is a sample that does not contain measurable concentrations of the analyte of concern. Tested by statistical performance, calibration samples, and LCSs, MDLs represent the best fundamental measurement of instrument sensitivity and the basis for establishing RLs.

The laboratory RL is typically about 3 to 5 times higher than the method detection limit (MDL). The RL is a laboratory-specific number, which is variable based on the sample matrix, moisture content, and other sample-specific factors. When a sample has to be diluted before analysis, either because of matrix problems or to bring the instrument response within the linear dynamic range, the RL is raised by a factor corresponding to the dilution factor.

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

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

The data validation process also determines the most valid analyte result to use for samples that are re-analyzed or diluted. These validated results are entered into the project database and used for decision-making.

RLs are a compromise between analytical sensitivity and precision. Setting low RLs can lead to poorly defensible data because of false positive (Type I) and/or false negative (Type II) errors, whereas elevated RLs can hamper site characterization. Laboratory determinations of MDLs are performed on non-typical samples (e.g.,

distilled water) leading to idealized limits. Confidence in detection limits increases with instrument signal level above the MDL, and higher limits mean better precision.

The following analyses and individual analyte sample results were qualified as estimated "J" due to the sample results being reported as detected and below the RL:

- Method 1613B (Dioxins)
 - 6,439 individual analyte results
- Method 1625C (NDMA)
 - 37 individual analyte results
- Method 300 (Fluoride/Nitrate)
 - 68 individual analyte results
- Method 314 (Perchlorate)
 - 8 individual analyte results
- Methods 6010B/6020 (Metals)
 - 2,588 individual analyte results
- Method 7199 (Hexavalent Chromium)
 - 331 individual analyte results
- Method 7471A (Mercury)
 - 291 individual analyte results
- Method 8015B (Alcohols, terphenyls, glycols)
 - 49 individual analyte results
- Method 8015M (TPHs)
 - 72 individual analyte results
- Method 8081A (Pesticides)
 - 119 individual analyte results
- Method 8082 (PCBs)
 - 301 individual analyte results
- Method 8151A (Herbicides)
 - 124 individual analyte results
- Method 8260B (VOAs)
 - 445 individual analyte results
- Method 8260B (VOA SIM)
 - 2 individual analyte results

- Method 8270C (SVOA)
 - 422 individual analyte results
- Method 8270C SIM (SVOAs)
 - 1,535 individual analyte results
- Method 8315A (Formaldehyde)
 - 6 individual analyte results
- Method 8330A (Energetics)
 - 2 individual analyte results

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

In general, for the data validated in this report, detection limits for the sample results were low enough to compare to the action levels stated in the WP/FSAP (CDM 2010). The detection limits for this project are lower than "normal" environmental data analyses. Analytical laboratory methods were modified in order to achieve the lowest practicable RL. Current laboratory instrumentation technology can not achieve all of these low project RLs, and thus some of the RLs were above project criteria. These results are still considered usable for project decisions.

C.8 Review of Selected Validation Reports

CDM performed a review of 10 percent of the validation reports identified in Table C-1. This review involved comparing the validation report results against the laboratory data packages as well as the validation guidance documents. All validation report results that were reviewed were verified against the laboratory data packages and determined that validation documents were followed as required.

C.9 Data Completeness

Completeness of the data collection program is defined as the percentage of samples planned for collection as listed in the WP/FSAP (CDM 2010) versus the actual number of samples collected during the field program (see equation A).

Completeness for acceptable data is defined as the percentage of acceptable data obtained judged to be valid versus the total quantity of data generated (see

equation B). Acceptable data include both data that pass all the QC criteria (unqualified data) and data that may not pass all the QC criteria but had appropriate corrective actions taken (qualified but usable data).

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

Where:

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

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

Where:

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

The overall completeness goal for these sampling events was 90 percent for all project data.

A total of 422 Subarea 5B soil samples including the field duplicates were collected and analyzed. One hundred percent of the samples identified in the Addendum to the WP/FSAP (CDM 2011) were collected, therefore meeting the completeness goal for the number of samples collected versus number of samples planned.

The completeness goal for acceptable data achieved was 99.61 percent of the number of measurements judged to be valid versus the total number of measurements made for all sample analyses for the Subarea 5B samples. Table C-6, Completeness Calculation Summary, shows a summary of the results that were estimated or rejected.

The following individual analyte results were rejected per analyses:

- Method 6020
 - 15 antimony results out of 14,970 results (0.1 percent)
- Method 8015M
 - 1 TPH (EFH [C8-C11]) result out of 2,055 results (0.05 percent)
- Method 8081A
 - 124 individual pesticide analyte results out of 5,060 results (2.45 percent)
- Method 8151A
 - 186 individual herbicide analyte results out of 2,420 results (7.68 percent)
- Method 8270C
 - 58 individual SVOC analyte results out of 13,310 results (0.43 percent)

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

No sampling deviations occurred during this sampling event. The data reported, and not rejected, are suitable for their intended use for characterization of Area IV of SSFL. The DQIs identified in the WP/FSAP (CDM 2010) met appropriate criteria. The achievement of the completeness goals for the data indicates a sufficient amount of usable data has been generated on which to base project decisions.

C.10 Assessment of Data Usability and Reconciliation with WP/FSAP Goals

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

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

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

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Table C-1 Sample Delivery Groups and Validation Levels

Sample Delivery Group	Level of Validation Performed	CDM Review
DE031	Level III	
DE032	Level III	
DE033	Level III	
DE034	Level III	
DE035	Level III	YES
DE036	Level III	
DE037	Level III	
DE038	Level III	
DE039	Level III	
DE040	Level III	
DE041	Level III	
DE042	Level III	
DE043	Level III	
DE044	Level III	YES
DE045	Level III	
DE047	Level III	
DE048	Level III	
DE049	Level IV	
DE051	Level III	
DE052	Level III	
DE053	Level III	
DE054	Level III	
DE055	Level III	
DE056	Level III	YES
DE057	Level III	
DE058	Level III	
DE059	Level IV	
DE060	Level III	
DE061	Level III	
DE062	Level III	
DE063	Level III	
DE064	Level III	
DE065	Level III	
DE066	Level IV	YES
DE067	Level III	
DE068	Level III	
DE069	Level III	
DE070	Level III	
DE071	Level III	
DE072	Level III	
DE073	Level III	
DE074	Level III	
DE075	Level III	
DE076	Level III	YES
DE077	Level III	
DE078	Level III	
DE079	Level IV	
DE080	Level III	
DE081	Level III	
DE082	Level III	
DE083	Level III	
DE084	Level III	
DE085	Level III	
DE101	Level IV	YES
DE102	Level III	
DX015	Level III	

Table C-1 Sample Delivery Groups and Validation Levels

Sample Delivery Group	Level of Validation Performed	CDM Review
DX016	Level III	
DX017	Level III	
DX018	Level III	
DX019	Level III	YES
DX020	Level III	
DX021	Level III	
DX022	Level III	
DX023	Level III	
DX024	Level III	
DX025	Level IV	YES
DX026	Level III	
DX027	Level III	
DX028	Level III	
DX029	Level III	
DX030	Level III	
DX031	Level III	
DX032	Level IV	
DX034	Level III	
DX035	Level III	
DX036	Level III	
DX037	Level III	YES
DX038	Level III	
DX039	Level III	
DX040	Level III	
DX041	Level III	
DX042	Level III	
DX043	Level III	
DX044	Level III	
DX045	Level IV	YES
DX046	Level III	
DX047	Level III	
DX048	Level III	
DX049	Level III	
DX050	Level III	
DX051	Level III	
DX052	Level III	
DX061	Level III	
DX062	Level III	

Table C-2 5B Equipment Blank Samples

Sample Name: EPA Sample Name: Sample Date: Sample Type		EB01-SA5B-120910 6162868 12/09/2010 Equipment Blank		EB02-SA5B-121410 6164944 12/14/2010 Equipment Blank		EB03-SA5B-121510 6166201 12/15/2010 Equipment Blank		EB04-SA5B-121610 6167515 12/16/2010 Equipment Blank		EB05-SA5B-121710 6169017 12/17/2010 Equipment Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	ug/l			5	U						
1,1,1-TRICHLOROETHANE	ug/l			5	U						
1,1,2,2-TETRACHLOROETHANE	ug/l			5	U						
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l			10	U						
1,1,2-TRICHLOROETHANE	ug/l			5	U						
1,1-DICHLOROETHANE	ug/l			5	U						
1,1-DICHLOROETHENE	ug/l			5	U						
1,1-DICHLOROPROPENE	ug/l			5	U						
1,2,3,4,6,7,8-HPCDD	pg/l	10.4	U	9.82	U	9.94	U	11.3	U	10.9	U
1,2,3,4,6,7,8-HPCDF	pg/l	10.4	U	9.82	U	9.94	UJ	11.3	U	10.9	U
1,2,3,4,7,8,9-HPCDF	pg/l	10.4	U	9.82	U	9.94	U	11.3	U	10.9	U
1,2,3,4,7,8-HxCDD	pg/l	10.4	U	9.82	U	9.94	UJ	11.3	U	10.9	U
1,2,3,4,7,8-HxCDF	pg/l	10.4	U	9.82	U	9.94	UJ	11.3	U	10.9	U
1,2,3,6,7,8-HxCDD	pg/l	10.4	U	9.82	U	9.94	UJ	11.3	U	10.9	U
1,2,3,6,7,8-HxCDF	pg/l	10.4	U	9.82	U	9.94	UJ	11.3	U	10.9	U
1,2,3,7,8,9-HxCDD	pg/l	10.4	U	9.82	U	9.94	UJ	11.3	U	10.9	U
1,2,3,7,8,9-HxCDF	pg/l	10.4	U	9.82	U	9.94	UJ	11.3	U	10.9	U
1,2,3,7,8-PECDD	pg/l	10.4	U	9.82	U	9.94	UJ	11.3	U	10.9	U
1,2,3,7,8-PECDF	pg/l	10.4	U	9.82	U	9.94	UJ	11.3	U	10.9	U
1,2,3-TRICHLOROBENZENE	ug/l			5	U						
1,2,3-TRICHLOROPROPANE	ug/l			5	U						
1,2,4-TRICHLOROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U
				5	U						
1,2,4-TRIMETHYLBENZENE	ug/l			5	U						
1,2-DIBROMO-3-CHLOROPROPANE	ug/l			5	U						
1,2-Dibromoethane (EDB)	ug/l			5	U						
1,2-DICHLOROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U
				5	U						
1,2-DICHLOROETHANE	ug/l			5	U						
1,2-DICHLOROPROPANE	ug/l			5	U						
1,2-Diphenylhydrazine/Azobenzene	ug/l	5	U	5	U	5	U	5	U	5	U
1,3,5-TRIMETHYLBENZENE	ug/l			5	U						
1,3,5-TRINITROBENZENE	ug/l										
1,3-DICHLOROBENZENE	ug/l	5	U	5	U	5	UJ	5	UJ	5	UJ
				5	U						
1,3-DICHLOROPROPANE	ug/l			5	U						
1,3-DINITROBENZENE	ug/l										
1,4-DICHLOROBENZENE	ug/l	5	U	5	U	5	UJ	5	UJ	5	UJ
				5	U						
1,4-DIOXANE	ug/l			2.0	U						
1-METHYLNAPHTHALENE	ug/l	0.051	U	0.052	UJ	0.050	UJ	0.052	U	0.051	U
2,2-DICHLOROPROPANE	ug/l			5	U						
2,3,4,6,7,8-HxCDF	pg/l	10.4	U	9.82	U	9.94	UJ	11.3	U	10.9	U
2,3,4,7,8-PECDF	pg/l	10.4	U	9.82	U	9.94	U	11.3	U	10.9	U
2,3,7,8-TCDD	pg/l	0.478	J	1.96	UJ	1.99	UJ	2.27	UJ	2.31	UJ
2,3,7,8-TCDF	pg/l	2.07	U	1.96	U	1.99	U	2.27	U	2.18	U
2,4,5-T	ug/l	0.051	U	0.049	U	0.051	U	0.052	U	0.052	U
2,4,5-TP (Silvex)	ug/l	0.051	U	0.049	UJ	0.051	U	0.052	U	0.052	U
2,4,5-TRICHLOROPHENOL	ug/l	5	U	5	U	5	U	5	U	5	U
2,4,6-TRICHLOROPHENOL	ug/l	5	U	5	U	5	U	5	U	5	U
2,4,6-TRINITROTOLUENE	ug/l										
2,4-D	ug/l	0.51	U	0.49	U	0.51	U	0.52	U	0.52	U
2,4-DB	ug/l	1.0	U	0.97	U	1.0	U	1.0	U	1.0	U
2,4-DIAMINO-6-NITROTOLUENE	ug/l										
2,4-DICHLOROPHENOL	ug/l	5	U	5	U	5	U	5	U	5	U
2,4-DIMETHYLPHENOL	ug/l	10	U	10	U	11	U	10	U	10	U
2,4-DINITROPHENOL	ug/l	31	U	30	U	32	U	31	U	30	U
2,4-DINITROTOLUENE	ug/l	5	U	5	U	5	U	5	U	5	U
2,6-Diamino-4-nitrotoluene	ug/l										
2,6-DINITROTOLUENE	ug/l	5	UJ	5	U	5	U	5	U	5	U
2-AMINO-4,6-DINITROTOLUENE	ug/l										
2-BUTANONE (MEK)	ug/l			10	U						
2-Chloro-1,1,1-trifluoroethane	ug/l			5	U						
2-CHLOROETHYL VINYL ETHER	ug/l			10	U						
2-CHLORONAPHTHALENE	ug/l	5	U	5	U	5	U	5	U	5	U
2-CHLOROPHENOL	ug/l	5	U	5	U	5	U	5	U	5	U
2-CHLOROTOLUENE	ug/l			5	U						
2-HEXANONE	ug/l			10	U						
2-METHYLNAPHTHALENE	ug/l	0.051	U	0.052	UJ	0.050	UJ	0.052	UJ	0.051	UJ
2-METHYLPHENOL	ug/l	5	U	5	U	5	U	5	U	5	U
2-NITROANILINE	ug/l	5	UJ	5	U	5	U	5	U	5	U
2-NITROPHENOL	ug/l	5	UJ	5	U	5	U	5	U	5	U
2-NITROTOLUENE	ug/l										
3,3'-DICHLOROBENZIDINE	ug/l	5	UJ	5	U	5	U	5	U	5	U
3,5-Dimethylphenol	ug/l	10	U	10	U	11	U	10	U	10	U
3-NITROANILINE	ug/l	5	U	5	U	5	U	5	U	5	U
3-NITROTOLUENE	ug/l										
4,4'-DDD	ug/l	0.020	U	0.019	U	0.020	U	0.022	U	0.021	U
4,4'-DDE	ug/l	0.020	U	0.019	U	0.016	J	0.022	U	0.021	U
4,4'-DDT	ug/l	0.020	U	0.019	UJ	0.020	U	0.022	U	0.021	U
4,6-DINITRO-2-METHYLPHENOL	ug/l	15	U	15	U	16	U	16	U	15	U
4-AMINO-2,6-DINITROTOLUENE	ug/l										
4-BROMOPHENYL-PHENYLETHER	ug/l	5	U	5	U	5	U	5	U	5	U
4-CHLORO-3-METHYLPHENOL	ug/l	5	U	5	U	5	U	5	U	5	U
4-CHLOROANILINE	ug/l	5	U	5	U	5	UJ	5	UJ	5	UJ
4-CHLOROPHENYL-PHENYLETHER	ug/l	5	U	5	U	5	U	5	U	5	U
4-CHLOROTOLUENE	ug/l			5	U						
4-METHYL-2-PENTANONE (MIBK)	ug/l			10	U						
4-METHYLPHENOL	ug/l	5	U	5	U	5	U	5	U	5	U
4-NITROANILINE	ug/l	5	UJ	5	U	5	U	5	U	5	U
4-NITROPHENOL	ug/l	31	U	30	U	32	U	31	U	30	U
4-NITROTOLUENE	ug/l										
ACENAPHTHENE	ug/l	0.051	U	0.052	U	0.050	U	0.052	U	0.051	U
ACENAPHTHYLENE	ug/l	0.051	U	0.052	U	0.050	U	0.052	U	0.051	U
ACETONE	ug/l			20	UJ						
ALDRIN	ug/l	0.0098	U	0.0096	U	0.010	U	0.011	U	0.010	U
ALPHA-BHC	ug/l	0.0098	U	0.0096	U	0.010	U	0.011	U	0.010	U
ALUMINUM	mg/l	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
ANILINE	ug/l	5	U	5	U	5	UJ	5	UJ	5	UJ
ANTHRACENE	ug/l	0.051	U	0.052	U	0.050	U	0.052	U	0.051	U
ANTIMONY	mg/l	0.0010	U	0.0010	U	0.0010	U	0.0010	U	0.0010	U
Aroclor 1016	ug/l	0.49	U	0.48	U	0.51	U	0.54	U	0.52	U
Aroclor 1221	ug/l	0.49	U	0.48	U	0.51	U	0.54	U	0.52	U
Aroclor 1232	ug/l	0.49	U	0.48	U	0.51	U	0.54	U	0.52	U
Aroclor 1242	ug/l	0.49	U	0.48	U	0.51	U	0.54	U	0.52	U
Aroclor 1248	ug/l	0.49	U	0.48	U	0.51	U	0.54	U	0.52	U
Aroclor 1254	ug/l	0.49	U	0.48	U	0.51	U	0.54	U	0.52	U
Aroclor 1260	ug/l	0.49	U	0.48	U	0.51	U	0.54	U	0.52	U
Aroclor 1262	ug/l	0.49	U	0.48	U	0.51	U	0.54	U	0.52	U
Aroclor 1268	ug/l	0.49	U	0.48	U	0.51	U	0.54	U	0.52	U
Aroclor 5432	ug/l	0.49	U	0.48	UJ	0.51	UJ	0.54	UJ	0.52	UJ
Aroclor 5442	ug/l	0.49	U	0.48	UJ	0.51	UJ	0.54	UJ	0.52	UJ
Aroclor 5460	ug/l	0.49	U	0.48	UJ	0.51	UJ	0.54	UJ	0.52	UJ
Arsenic	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
BARIUM	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
BENZENE	ug/l			5	U						
BENZIDINE	ug/l	61	U	60	U	63	UJ	62	UJ	60	UJ
BENZO(A)ANTHRACENE	ug/l	0.051	U	0.052	U	0.050	U	0.052	U	0.051	U
BENZO(A)PYRENE	ug/l	0.051	U	0.052	U	0.050	U	0.052	U	0.051	U
BENZO(B)FLUORANTHENE	ug/l	0.051	U	0.052	U	0.050	U	0.052	U	0.051	U
BENZO(G,H,I)PERYLENE	ug/l	0.051	U	0.052	U	0.050	U	0.052	UJ	0.051	UJ
BENZO(K)FLUORANTHENE	ug/l	0.051	U	0.052	UJ	0.050	UJ	0.052	U	0.051	U
BENZOIC ACID	ug/l	15	UJ	15	UJ	16	UJ	16	UJ	15	UJ
BENZYL ALCOHOL	ug/l	15	U	15	U	16	U	16	U	15	U
BERYLLIUM	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
BETA-BHC	ug/l	0.0098	U	0.0096	U	0.020	U	0.011	U	0.010	U
BIS(2-CHLOROETHOXY)METHANE	ug/l	5	U	5	U	5	U	5	U	5	U
BIS(2-CHLOROETHYL) ETHER	ug/l	5	U	5	U	5	U	5	U	5	U
BIS(2-CHLOROISOPROPYL) ETHER	ug/l	5	U	5	U	5	U	5	U	5	U
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	1.0	U	0.16	J	0.15	J	1.0	U	1.0	U
BORON	mg/l	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U
BROMOBENZENE	ug/l			5	U						
BROMOCHLOROMETHANE	ug/l			5	U						
BROMODICHLOROMETHANE	ug/l			5	U						
BROMOFORM	ug/l			5	U						
B											

Table C-2 5B Equipment Blank Samples

Sample Name: EPA Sample Name: Sample Date: Sample Type		EB01-SA5B-120910 6162868 12/09/2010 Equipment Blank		EB02-SA5B-121410 6164944 12/14/2010 Equipment Blank		EB03-SA5B-121510 6166201 12/15/2010 Equipment Blank		EB04-SA5B-121610 6167515 12/16/2010 Equipment Blank		EB05-SA5B-121710 6169017 12/17/2010 Equipment Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
CARBAZOLE	ug/l	5	UJ	5	U	5	U	5	U	5	U
CARBON TETRACHLORIDE	ug/l			5	U						
Chlordane	ug/l	0.49	U	0.48	U	0.51	U	0.54	U	0.52	U
Chlorobenzene	ug/l			5	U						
Chloroethane	ug/l			5	U						
CHLOROFORM	ug/l			5	U						
CHLOROMETHANE	ug/l			5	U						
Chlorotrifluoroethylene	ug/l			5	UJ						
CHROMIUM	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
CHRYSENE	ug/l	0.051	U	0.052	UJ	0.050	UJ	0.052	U	0.051	U
CIS-1,2-DICHLOROETHENE	ug/l			5	U						
CIS-1,3-DICHLOROPROPENE	ug/l			5	U						
COBALT	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
COPPER	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
CYANIDE	mg/l										
DALAPON	ug/l	1.3	U	1.2	UJ	1.3	U	1.3	U	1.3	U
DELTA-BHC	ug/l	0.0098	U	0.0096	U	0.010	U	0.011	U	0.010	U
DIBENZO(A,H)ANTHRACENE	ug/l	0.051	U	0.052	UJ	0.050	UJ	0.052	UJ	0.051	UJ
DIBENZOFURAN	ug/l	5	UJ	5	U	5	U	5	U	5	U
DIBROMOCHLOROMETHANE	ug/l			5	U						
DIBROMOMETHANE	ug/l			5	U						
DICAMBA	ug/l	0.31	U	0.29	U	0.31	U	0.31	U	0.31	U
DICHLORODIFLUOROMETHANE	ug/l			5	U						
DICHLOROPROP	ug/l	0.51	U	0.49	UJ	0.51	U	0.52	U	0.52	U
DIELDRIN	ug/l	0.020	U	0.019	U	0.020	U	0.022	U	0.021	U
DIETHYLENE GLYCOL	mg/l										
Diethylphthalate	ug/l	0.090	J	0.12	J	0.13	J	0.11	J	0.11	J
Dimethylphthalate	ug/l	1.0	U	1.0	UJ	0.99	UJ	1.0	U	1.0	U
Di-n-butylphthalate	ug/l	1.0	U	0.15	J	0.33	J	1.0	U	1.0	U
Di-n-octylphthalate	ug/l	1.0	U	0.083	J	0.079	J	1.0	U	1.0	U
DINOSEB	ug/l	0.51	UJ	0.49	UJ	0.51	U	0.52	U	0.52	U
EFH (C12-C14)	mg/l										
EFH (C15-C20)	mg/l										
EFH (C21-C30)	mg/l										
EFH (C30-C40)	mg/l										
EFH (C8-C11)	mg/l										
ENDOSULFAN I	ug/l	0.0098	U	0.0096	U	0.010	U	0.011	U	0.010	U
ENDOSULFAN II	ug/l	0.020	U	0.019	UJ	0.020	U	0.022	U	0.021	U
ENDOSULFAN SULFATE	ug/l	0.020	U	0.019	U	0.020	U	0.022	U	0.021	U
ENDRIN	ug/l	0.020	U	0.019	U	0.020	U	0.022	U	0.021	U
ENDRIN ALDEHYDE	ug/l	0.098	U	0.096	U	0.10	U	0.11	U	0.10	U
ENDRIN KETONE	ug/l	0.020	U	0.019	U	0.020	U	0.022	U	0.021	U
ETHANOL	ug/l										
ETHYLBENZENE	ug/l			5	U						
ETHYLENE GLYCOL	mg/l										
FLUORANTHENE	ug/l	0.051	U	0.052	UJ	0.050	UJ	0.052	U	0.051	U
FLUORENE	ug/l	0.051	U	0.052	U	0.050	U	0.052	U	0.051	U
FLUORIDE	mg/l	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
FORMALDEHYDE	ug/l										
gamma-BHC (Lindane)	ug/l	0.0098	U	0.0096	U	0.010	U	0.011	U	0.010	U
GASOLINE RANGE ORGANICS (C5-C12)	ug/l			50	U						
HEPTACHLOR	ug/l	0.0098	U	0.0096	U	0.010	U	0.011	U	0.010	U
HEPTACHLOR EPOXIDE	ug/l	0.0098	U	0.0096	U	0.010	U	0.011	U	0.010	U
HEXACHLOROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U
HEXACHLOROBUTADIENE	ug/l	5	U	5	U	5	U	5	U	5	U
HEXACHLOROCYCLOPENTADIENE	ug/l	15	U	15	U	16	UJ	16	UJ	15	UJ
HEXACHLOROETHANE	ug/l	5	U	5	U	5	U	5	U	5	U
HEXAVALENT CHROMIUM	ug/l	10.0	U	10.0	U	10.0	U	10.0	U	10.0	UJ
HMX	ug/l										
INDENO(1,2,3-CD)PYRENE	ug/l	0.051	U	0.052	U	0.050	U	0.052	UJ	0.051	UJ
IRON	mg/l	0.200	U	0.0533	J	0.200	U	0.200	U	0.200	U
ISOPHORONE	ug/l	5	U	5	U	5	U	5	U	5	U
Isopropanol	ug/l										
ISOPROPYLBENZENE	ug/l			5	U						
LEAD	mg/l	0.0010	U	0.000075	J	0.00012	J	0.0010	U	0.0010	U
LITHIUM	mg/l	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U
m,p-Xylene	ug/l			5	U						
MAGNESIUM	mg/l	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U
MANGANESE	mg/l	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
MCPA	ug/l	1000	U	970	U	1000	U	1000	U	1000	U
MCPP	ug/l	200	U	190	U	200	U	210	U	210	U
Mercury	mg/l	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U
METHANOL	ug/l										
METHOXYCHLOR	ug/l	0.098	U	0.096	U	0.10	U	0.11	U	0.10	U
METHYL TERT-BUTYL ETHER (MTBE)	ug/l			5	U						
METHYLENE CHLORIDE	ug/l			5	U						
MIREX	ug/l	0.25	U	0.24	U	0.26	U	0.27	U	0.26	U
MOLYBDENUM	mg/l	0.00050	U	0.00032	J	0.00050	U	0.00050	U	0.00050	U
m-Terphenyl	mg/l										
NAPHTHALENE	ug/l	0.032	J	0.027	J	0.036	J	0.030	J	0.029	J
N-BUTYLBENZENE	ug/l			5	U						
NICKEL	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Nitrate-NO3	mg/l										
NITROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U
Nitroglycerin	ug/l										
N-NITROSODIMETHYLAMINE	ng/l										
N-NITROSODIMETHYLAMINE	ug/l	0.051	UJ	0.052	UJ	0.050	UJ	0.052	UJ	0.051	UJ
N-NITROSO-DI-N-PROPYLAMINE	ug/l	5	U	5	U	5	U	5	U	5	U
N-NITROSODIPHENYLAMINE	ug/l	5	U	5	U	5	U	5	U	5	U
N-PROPYLBENZENE	ug/l			5	U						
OCDD	pg/l	20.7	U	19.6	U	19.9	U	22.7	U	21.8	U
OCDF	pg/l	20.7	U	19.6	U	19.9	U	22.7	U	21.8	U
O-TERPHENYL	mg/l										
O-XYLENE	ug/l			5	U						
PENTACHLOROPHENOL	ug/l	15	U	15	U	16	U	16	U	15	U
PERCHLORATE	ug/l	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
PETN	ug/l										
PH	pH unit	5.6	J			5.6	J	5.7			
PHENANTHRENE	ug/l	0.051	U	0.052	U	0.050	U	0.052	UJ	0.051	UJ
PHENOL	ug/l	5	U	5	U	5	U	5	U	5	U
PHOSPHORUS	mg/l	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U
P-ISOPROPYLTOLUENE	ug/l			5	U						
POTASSIUM	mg/l	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
Propylene glycol	mg/l										
p-Terphenyl	mg/l										
PYRENE	ug/l	0.051	U	0.052	U	0.050	U	0.052	U	0.051	U
RDx	ug/l										
SEC-BUTYLBENZENE	ug/l			5	U						
SELENIUM	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
SILVER	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
SODIUM	mg/l	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
STRONTIUM	mg/l	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
STYRENE	ug/l			5	U						
TERT-BUTYLBENZENE	ug/l			5	U						
TETRACHLOROETHENE	ug/l			5	U						
Tetryl	ug/l										
THALLIUM	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
TIN	mg/l	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U
TITANIUM	mg/l	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U
TOLUENE	ug/l			5	U						
TOXAPHENE	ug/l	2.9	U	2.9	U	3.1	U	3.3	U	3.1	U
TRANS-1,2-DICHLOROETHENE	ug/l			5	U						
TRANS-1,3-DICHLOROPROPENE	ug/l			5	U						
TRICHLOROETHENE	ug/l			5	U						
TRICHLOROFLUOROMETHANE	ug/l			5	U						
VANADIUM	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
VINYL CHLORIDE	ug/l			5	U						
ZINC	mg/l	0.0150	U	0.0150	U	0.0150	U	0.0150	U	0.0150	U
Zirconium	mg/l	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U

Table C-2 5B Equipment Blank Samples

Sample Name: EPA Sample Name: Sample Date: Sample Type		EB06-SA5B-122010 6172056 12/20/2010 Equipment Blank		EB07-SA5B-122110 6172104 12/21/2010 Equipment Blank		EB08-SA5B-122210 6173161 12/22/2010 Equipment Blank		EB15-SA5B-121310 6163875 12/13/2010 Equipment Blank		EB15-SA5B-121510 6166202 12/15/2010 Equipment Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
CARBAZOLE	ug/l	5	U	5	U	5	U	5	U	5	U
CARBON TETRACHLORIDE	ug/l							5	U	5	U
Chlordane	ug/l	0.53	U	0.50	U	0.52	U	0.52	U	0.52	U
Chlorobenzene	ug/l							5	U	5	U
Chloroethane	ug/l							5	U	5	U
CHLOROFORM	ug/l							5	U	5	U
CHLOROMETHANE	ug/l							5	U	5	U
Chlorotrifluoroethylene	ug/l							5	U	5	U
CHROMIUM	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
CHRYSENE	ug/l	0.050	U	0.050	U	0.053	U	0.050	U	0.057	UJ
CIS-1,2-DICHLOROETHENE	ug/l							5	U	5	U
CIS-1,3-DICHLOROPROPENE	ug/l							5	U	5	U
COBALT	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
COPPER	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
CYANIDE	mg/l			0.010	U						
DALAPON	ug/l	1.3	U	1.3	UJ	1.3	U	1.4	U	1.3	U
DELTA-BHC	ug/l	0.011	U	0.0099	U	0.010	U	0.010	U	0.010	U
DIBENZO(A,H)ANTHRACENE	ug/l	0.050	U	0.050	U	0.053	U	0.050	U	0.057	UJ
DIBENZOFURAN	ug/l	5	U	5	U	5	U	5	U	5	U
DIBROMOCHLOROMETHANE	ug/l							5	U	5	U
DIBROMOMETHANE	ug/l							5	U	5	U
DICAMBA	ug/l	0.31	U	0.31	UJ	0.31	U	0.33	U	0.32	U
DICHLORODIFLUOROMETHANE	ug/l							5	U	5	U
DICHLOROPROP	ug/l	0.52	U	0.52	UJ	0.51	U	0.56	U	0.54	U
DIELDRIN	ug/l	0.021	U	0.020	U	0.021	U	0.021	U	0.021	U
DIETHYLENE GLYCOL	mg/l			100	R						
Diethylphthalate	ug/l	0.056	J	0.11	J	0.098	J	1.0	U	0.12	J
Dimethylphthalate	ug/l	1.0	U	1.0	U	1.1	UJ	1.0	U	1.1	UJ
Di-n-butylphthalate	ug/l	1.0	U	1.0	U	0.40	J	1.0	U	0.18	J
Di-n-octylphthalate	ug/l	0.12	J	0.12	J	1.1	U	1.0	U	0.088	J
DINOSEB	ug/l	0.52	U	0.52	U	0.51	U	0.56	U	0.54	U
EFH (C12-C14)	mg/l			0.61	UJ						
EFH (C15-C20)	mg/l			0.61	UJ						
EFH (C21-C30)	mg/l			0.61	UJ						
EFH (C30-C40)	mg/l			0.61	UJ						
EFH (C8-C11)	mg/l			0.61	UJ						
ENDOSULFAN I	ug/l	0.011	U	0.0099	U	0.010	U	0.010	U	0.010	U
ENDOSULFAN II	ug/l	0.021	U	0.020	U	0.021	U	0.021	U	0.021	U
ENDOSULFAN SULFATE	ug/l	0.021	U	0.020	UJ	0.021	U	0.021	U	0.021	U
ENDRIN	ug/l	0.021	U	0.020	U	0.021	U	0.021	U	0.021	U
ENDRIN ALDEHYDE	ug/l	0.11	U	0.099	U	0.10	U	0.10	U	0.10	U
ENDRIN KETONE	ug/l	0.021	U	0.020	U	0.021	U	0.021	U	0.021	U
ETHANOL	ug/l			1000	U						
ETHYLBENZENE	ug/l							5	U	5	U
ETHYLENE GLYCOL	mg/l			100	R						
FLUORANTHENE	ug/l	0.050	U	0.050	U	0.053	U	0.050	U	0.057	UJ
FLUORENE	ug/l	0.050	U	0.050	U	0.053	U	0.050	U	0.057	U
FLUORIDE	mg/l	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
FORMALDEHYDE	ug/l			50	U						
gamma-BHC (Lindane)	ug/l	0.011	U	0.0099	U	0.010	U	0.010	U	0.010	U
GASOLINE RANGE ORGANICS (C5-C12)	ug/l			50	U					50	UJ
HEPTACHLOR	ug/l	0.011	U	0.0099	U	0.010	U	0.010	U	0.010	U
HEPTACHLOR EPOXIDE	ug/l	0.011	U	0.0099	U	0.010	U	0.010	U	0.010	U
HEXACHLOROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U
HEXACHLOROBUTADIENE	ug/l	5	U	5	U	5	U	5	U	5	U
HEXACHLOROCYCLOPENTADIENE	ug/l	15	U	16	U	16	U	15	U	15	UJ
HEXACHLOROETHANE	ug/l	5	U	5	U	5	U	5	U	5	U
HEXAVALENT CHROMIUM	ug/l	10.0	UJ	10.0	UJ	10.0	UJ	10.0	U	10.0	U
HMX	ug/l			2.0	U						
INDENO(1,2,3-CD)PYRENE	ug/l	0.050	U	0.050	U	0.053	U	0.050	U	0.057	U
IRON	mg/l	0.200	U	0.200	U	0.0640	J	0.200	U	0.200	U
ISOPHORONE	ug/l	5	U	5	U	5	U	5	U	5	U
Isopropanol	ug/l			1000	U						
ISOPROPYLBENZENE	ug/l							5	U	5	U
LEAD	mg/l	0.0010	U	0.0010	U	0.0010	U	0.000099	J	0.0010	U
LITHIUM	mg/l	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U
m,p-Xylene	ug/l							5	U	5	U
MAGNESIUM	mg/l	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U
MANGANESE	mg/l	0.00097	J	0.0050	U	0.0050	U	0.0050	U	0.0050	U
MCPA	ug/l	1000	U	1000	U	1000	U	1100	U	1100	U
MCPP	ug/l	210	U	210	U	200	U	220	U	220	U
Mercury	mg/l	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U
METHANOL	ug/l			1000	U						
METHOXYCHLOR	ug/l	0.11	U	0.099	UJ	0.10	U	0.10	U	0.10	U
METHYL TERT-BUTYL ETHER (MTBE)	ug/l							5	U	5	U
METHYLENE CHLORIDE	ug/l							5	U	5	U
MIREX	ug/l	0.26	U	0.25	U	0.26	U	0.26	U	0.26	U
MOLYBDENUM	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
m-Terphenyl	mg/l			0.26	U						
NAPHTHALENE	ug/l	0.042	J	0.027	J	0.034	J	0.033	J	0.030	J
N-BUTYLBENZENE	ug/l							5	U	5	U
NICKEL	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Nitrate-NO3	mg/l			0.10	U						
NITROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U
Nitroglycerin	ug/l			15	U						
N-NITROSODIMETHYLAMINE	ng/l			1.04	UJ						
N-NITROSODIMETHYLAMINE	ug/l	0.050	U	0.050	U	0.053	UJ	0.050	U	0.057	UJ
N-NITROSO-DI-N-PROPYLAMINE	ug/l	5	U	5	U	5	U	5	U	5	U
N-NITROSODIPHENYLAMINE	ug/l	5	U	5	U	5	U	5	U	5	U
N-PROPYLBENZENE	ug/l							5	U	5	U
OCDD	pg/l	20.5	U	20.8	U	21.3	U	7.38		22.3	U
OCDF	pg/l	20.5	U	20.8	U	21.3	U	1.71	J	22.3	U
O-TERPHENYL	mg/l			0.26	U						
O-XYLENE	ug/l							5	U	5	U
PENTACHLOROPHENOL	ug/l	15	U	16	U	16	U	15	U	15	U
PERCHLORATE	ug/l	1.3	J	2.0	U	2.0	U	2.0	U	2.0	U
PETN	ug/l			18	U						
PH	pH unit			5.6				5.2	J	5.3	J
PHENANTHRENE	ug/l	0.050	U	0.050	U	0.053	U	0.018	J	0.057	U
PHENOL	ug/l	5	U	5	U	5	U	5	U	5	U
PHOSPHORUS	mg/l	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U
P-ISOPROPYLTOLUENE	ug/l							5	U	5	U
POTASSIUM	mg/l	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
Propylene glycol	mg/l			100	R						
p-Terphenyl	mg/l			0.26	U						
PYRENE	ug/l	0.050	U	0.050	U	0.053	U	0.050	U	0.057	U
RDX	ug/l			2.0							
SEC-BUTYLBENZENE	ug/l							5	U	5	U
SELENIUM	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
SILVER	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
SODIUM	mg/l	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
STRONTIUM	mg/l	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
STYRENE	ug/l							5	U	5	U
TERT-BUTYLBENZENE	ug/l							5	U	5	U
TETRACHLOROETHENE	ug/l							5	U	5	U
Tetryl	ug/l			0.60	UJ						
THALLIUM	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
TIN	mg/l	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U
TITANIUM	mg/l	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U
TOLUENE	ug/l							5	U	5	U
TOXAPHENE	ug/l	3.2	U	3.0	U	3.1	U	3.1	U	3.1	U
TRANS-1,2-DICHLOROETHENE	ug/l							5	U	5	U
TRANS-1,3-DICHLOROPROPENE	ug/l							5	U	5	U
TRICHLOROETHENE	ug/l							5	U	5	U
TRICHLOROFLUOROMETHANE	ug/l							5	U	5	U
VANADIUM	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
VINYL CHLORIDE	ug/l							5	U	5	U
ZINC	mg/l	0.0150	U	0.0150	U	0.0150	U	0.0150	U	0.0150	U
Zirconium	mg/l	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U

Table C-2 5B Equipment Blank Samples

Sample Name: EPA Sample Name: Sample Date: Sample Type		EB16-SA5B-121610 6167516 12/16/2010 Equipment Blank		EB18-SA5B-010611 6179366 01/06/2011 Equipment Blank		EB19-SA5B-010711 6180109 01/07/2011 Equipment Blank		EB20-SA5B-011311 6183558 01/13/2011 Equipment Blank		EB21-SA5B-011311 6183559 01/13/2011 Equipment Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	ug/l										
1,1,1-TRICHLOROETHANE	ug/l										
1,1,2,2-TETRACHLOROETHANE	ug/l										
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l										
1,1,2-TRICHLOROETHANE	ug/l										
1,1-DICHLOROETHANE	ug/l										
1,1-DICHLOROETHENE	ug/l										
1,1-DICHLOROPROPENE	ug/l										
1,2,3,4,6,7,8-HPCDD	pg/l			10.7	U			10.9	U	10.2	U
1,2,3,4,6,7,8-HPCDF	pg/l			10.7	U			10.9	U	10.2	U
1,2,3,4,7,8,9-HPCDF	pg/l			10.7	U			10.9	U	10.2	U
1,2,3,4,7,8-HxCDD	pg/l			10.7	U			10.9	U	10.2	U
1,2,3,4,7,8-HXCDF	pg/l			10.7	U			10.9	U	10.2	U
1,2,3,6,7,8-HxCDD	pg/l			10.7	U			10.9	U	10.2	U
1,2,3,6,7,8-HXCDF	pg/l			10.7	U			10.9	U	10.2	U
1,2,3,7,8,9-HxCDD	pg/l			10.7	U			0.189	J	0.360	J
1,2,3,7,8,9-HXCDF	pg/l			10.7	U			10.9	U	10.2	U
1,2,3,7,8-PECDD	pg/l			10.7	U			10.9	U	10.2	U
1,2,3,7,8-PECDF	pg/l			10.7	U			10.9	U	10.2	U
1,2,3-TRICHLOROBENZENE	ug/l										
1,2,3-TRICHLOROPROPANE	ug/l										
1,2,4-TRICHLOROBENZENE	ug/l			5	U			5	U	5	U
1,2,4-TRIMETHYLBENZENE	ug/l										
1,2-DIBROMO-3-CHLOROPROPANE	ug/l										
1,2-Dibromoethane (EDB)	ug/l										
1,2-DICHLOROBENZENE	ug/l			5	U			5	U	5	U
1,2-DICHLOROETHANE	ug/l										
1,2-DICHLOROPROPANE	ug/l										
1,2-Diphenylhydrazine/Azobenzene	ug/l			5	U			5	U	5	U
1,3,5-TRIMETHYLBENZENE	ug/l										
1,3,5-TRINITROBENZENE	ug/l	0.60	U			0.60	U				
1,3-DICHLOROBENZENE	ug/l			5	U			5	U	5	U
1,3-DICHLOROPROPANE	ug/l										
1,3-DINITROBENZENE	ug/l	0.60	U			0.60	U				
1,4-DICHLOROBENZENE	ug/l			5	U			5	U	5	U
1,4-DIOXANE	ug/l										
1-METHYLNAPHTHALENE	ug/l			0.050	U			0.058	U	0.051	U
2,2-DICHLOROPROPANE	ug/l										
2,3,4,6,7,8-HXCDF	pg/l			10.7	U			10.9	U	10.2	U
2,3,4,7,8-PECDF	pg/l			10.7	U			10.9	U	10.2	U
2,3,7,8-TCDD	pg/l			2.15	U			2.17	U	2.03	U
2,3,7,8-TCDF	pg/l			2.15	U			2.17	U	2.03	U
2,4,5-T	ug/l										
2,4,5-TP (Silvex)	ug/l										
2,4,5-TRICHLOROPHENOL	ug/l			5	U			5	U	5	U
2,4,6-TRICHLOROPHENOL	ug/l			5	U			5	U	5	U
2,4,6-TRINITROTOLUENE	ug/l	0.60	U			0.60	U				
2,4-D	ug/l										
2,4-DB	ug/l										
2,4-DIAMINO-6-NITROTOLUENE	ug/l	0.60	U			0.60	U				
2,4-DICHLOROPHENOL	ug/l			5	U			5	U	5	U
2,4-DIMETHYLPHENOL	ug/l			10	U			11	U	11	U
2,4-DINITROPHENOL	ug/l			30	U			32	U	32	U
2,4-DINITROTOLUENE	ug/l	0.60	U	5	U	0.60	U	5	U	5	U
2,6-Diamino-4-nitrotoluene	ug/l	0.60	U			0.60	U				
2,6-DINITROTOLUENE	ug/l	0.60	U	5	U	0.60	U	5	U	5	U
2-AMINO-4,6-DINITROTOLUENE	ug/l	0.60	U			0.60	U				
2-BUTANONE (MEK)	ug/l										
2-Chloro-1,1,1-trifluoroethane	ug/l										
2-CHLOROETHYL VINYL ETHER	ug/l										
2-CHLORONAPHTHALENE	ug/l			5	U			5	U	5	U
2-CHLOROPHENOL	ug/l			5	U			5	U	5	U
2-CHLOROTOLUENE	ug/l										
2-HEXANONE	ug/l										
2-METHYLNAPHTHALENE	ug/l			0.050	U			0.058	U	0.051	U
2-METHYLPHENOL	ug/l			5	U			5	U	5	U
2-NITROANILINE	ug/l			5	U			5	U	5	U
2-NITROPHENOL	ug/l			5	U			5	U	5	U
2-NITROTOLUENE	ug/l	0.60	U			0.60	U				
3,3'-DICHLOROBENZIDINE	ug/l			5	U			5	U	5	U
3,5-Dimethylphenol	ug/l			10	U			11	U	11	U
3-NITROANILINE	ug/l			5	U			5	U	5	U
3-NITROTOLUENE	ug/l	1.2	U			1.2	U				
4,4'-DDD	ug/l										
4,4'-DDE	ug/l										
4,4'-DDT	ug/l										
4,6-DINITRO-2-METHYLPHENOL	ug/l			15	U			16	U	16	U
4-AMINO-2,6-DINITROTOLUENE	ug/l	0.60	U			0.60	U				
4-BROMOPHENYL-PHENYLETHER	ug/l			5	U			5	U	5	U
4-CHLORO-3-METHYLPHENOL	ug/l			5	U			5	U	5	U
4-CHLOROANILINE	ug/l			5	U			5	U	5	U
4-CHLOROPHENYL-PHENYLETHER	ug/l			5	U			5	U	5	U
4-CHLOROTOLUENE	ug/l										
4-METHYL-2-PENTANONE (MIBK)	ug/l										
4-METHYLPHENOL	ug/l			5	U			5	U	5	U
4-NITROANILINE	ug/l			5	U			5	U	5	U
4-NITROPHENOL	ug/l			30	U			32	U	32	U
4-NITROTOLUENE	ug/l	1.2	U			1.2	U				
ACENAPHTHENE	ug/l			0.050	U			0.058	U	0.051	U
ACENAPHTHYLENE	ug/l			0.050	U			0.058	U	0.051	U
ACETONE	ug/l										
ALDRIN	ug/l										
ALPHA-BHC	ug/l										
ALUMINUM	mg/l			0.200	U			0.200	U	0.200	U
ANILINE	ug/l			5	U			5	U	5	U
ANTHRACENE	ug/l			0.050	U			0.058	U	0.051	U
ANTIMONY	mg/l			0.0010	U			0.0010	U	0.0010	U
Aroclor 1016	ug/l			0.58	U			0.52	U	0.52	U
Aroclor 1221	ug/l			0.58	U			0.52	U	0.52	U
Aroclor 1232	ug/l			0.58	U			0.52	U	0.52	U
Aroclor 1242	ug/l			0.58	U			0.52	U	0.52	U
Aroclor 1248	ug/l			0.58	U			0.52	U	0.52	U
Aroclor 1254	ug/l			0.58	U			0.52	U	0.52	U
Aroclor 1260	ug/l			0.58	U			0.52	U	0.52	U
Aroclor 1262	ug/l			0.58	U			0.52	U	0.52	U
Aroclor 1268	ug/l			0.58	U			0.52	U	0.52	U
Aroclor 5432	ug/l			0.58	UJ			0.52	UJ	0.52	UJ
Aroclor 5442	ug/l			0.58	UJ			0.52	UJ	0.52	UJ
Aroclor 5460	ug/l			0.58	UJ			0.52	UJ	0.52	UJ
Arsenic	mg/l			0.0020	U			0.0020	U	0.0020	U
BARIUM	mg/l			0.0020	U			0.0020	U	0.0020	U
BENZENE	ug/l										
BENZIDINE	ug/l			61	U			63	U	65	U
BENZO(A)ANTHRACENE	ug/l			0.050	U			0.058	U	0.051	U
BENZO(A)PYRENE	ug/l			0.050	U			0.058	U	0.051	U
BENZO(B)FLUORANTHENE	ug/l			0.050	U			0.058	U	0.051	U
BENZO(G,H,I)PERYLENE	ug/l			0.050	U			0.058	U	0.051	U
BENZO(K)FLUORANTHENE	ug/l			0.050	U			0.058	U	0.051	U
BENZOIC ACID	ug/l			15	UJ			16	UJ	16	UJ
BENZYL ALCOHOL	ug/l			15	U			16	U	16	U
BERYLLIUM	mg/l			0.00050	U			0.00050	U	0.00050	U
BETA-BHC	ug/l										
BIS(2-CHLOROETHOXY)METHANE	ug/l			5	U			5	U	5	U
BIS(2-CHLOROETHYL) ETHER	ug/l			5	U			5	U	5	U
BIS(2-CHLOROISOPROPYL) ETHER	ug/l			5	U			5	U	5	U
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l			1.0	U			1.2	U	1.0	U
BORON	mg/l			0.0500	U			0.0500	U	0.0500	U
BROMOBENZENE	ug/l										
BROMOCHLOROMETHANE	ug/l										
BROMODICHLOROMETHANE	ug/l										
BROMOFORM	ug/l										
BROMOMETHANE	ug/l										
Butylbenzylphthalate	ug/l			1.0	U					1.0	U
CADMIUM	mg/l			0.00050	U			0.00050	U	0.00050	U
CALCIUM	mg/l			0.200	U			0.200	U	0.200	U

Table C-2 5B Equipment Blank Samples

Sample Name: EPA Sample Name: Sample Date: Sample Type		EB16-SA5B-121610 6167516 12/16/2010 Equipment Blank		EB18-SA5B-010611 6179366 01/06/2011 Equipment Blank		EB19-SA5B-010711 6180109 01/07/2011 Equipment Blank		EB20-SA5B-011311 6183558 01/13/2011 Equipment Blank		EB21-SA5B-011311 6183559 01/13/2011 Equipment Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
CARBAZOLE	ug/l			5	U			5	U	5	U
CARBON TETRACHLORIDE	ug/l										
Chlordane	ug/l										
Chlorobenzene	ug/l										
Chloroethane	ug/l										
CHLOROFORM	ug/l										
CHLOROMETHANE	ug/l										
Chlorotrifluoroethylene	ug/l										
CHROMIUM	mg/l			0.0020	U			0.0020	U	0.0020	U
CHRYSENE	ug/l			0.050	U			0.058	U	0.051	U
CIS-1,2-DICHLOROETHENE	ug/l										
CIS-1,3-DICHLOROPROPENE	ug/l										
COBALT	mg/l			0.00050	U			0.00050	U	0.00050	U
COPPER	mg/l			0.0020	U			0.0020	U	0.0020	U
CYANIDE	mg/l	0.010	U			0.010	U				
DALAPON	ug/l										
DELTA-BHC	ug/l										
DIBENZO(A,H)ANTHRACENE	ug/l			0.050	U			0.058	U	0.051	U
DIBENZOFURAN	ug/l			5	U			5	U	5	U
DIBROMOCHLOROMETHANE	ug/l										
DIBROMOMETHANE	ug/l										
DICAMBA	ug/l										
DICHLORODIFLUOROMETHANE	ug/l										
DICHLOROPROP	ug/l										
DIELDRIN	ug/l										
DIETHYLENE GLYCOL	mg/l	100	U			100	U				
Diethylphthalate	ug/l			0.21	J			0.15	J	0.15	J
Dimethylphthalate	ug/l			1.0	U			1.2	U	1.0	U
Di-n-butylphthalate	ug/l			0.63	J			0.62	J	0.57	J
Di-n-octylphthalate	ug/l			1.0	U			1.2	U	1.0	U
DINOSEB	ug/l										
EFH (C12-C14)	mg/l	0.60	UJ			0.66	U				
EFH (C15-C20)	mg/l	0.60	UJ			0.66	U				
EFH (C21-C30)	mg/l	0.60	UJ			0.66	U				
EFH (C30-C40)	mg/l	0.60	UJ			0.66	U				
EFH (C8-C11)	mg/l	0.60	UJ			0.66	U				
ENDOSULFAN I	ug/l										
ENDOSULFAN II	ug/l										
ENDOSULFAN SULFATE	ug/l										
ENDRIN	ug/l										
ENDRIN ALDEHYDE	ug/l										
ENDRIN KETONE	ug/l										
ETHANOL	ug/l					1000	U				
ETHYLBENZENE	ug/l										
ETHYLENE GLYCOL	mg/l	100	U			100	U				
FLUORANTHENE	ug/l			0.050	U			0.058	U	0.051	U
FLUORENE	ug/l			0.050	U			0.058	U	0.051	U
FLUORIDE	mg/l			0.10	U			0.10	U	0.10	U
FORMALDEHYDE	ug/l	50	U			17	J				
gamma-BHC (Lindane)	ug/l										
GASOLINE RANGE ORGANICS (C5-C12)	ug/l	50	U			50	U				
HEPTACHLOR	ug/l										
HEPTACHLOR EPOXIDE	ug/l										
HEXACHLOROBENZENE	ug/l			5	U			5	U	5	U
HEXACHLOROBUTADIENE	ug/l			5	U			5	U	5	U
HEXACHLOROCYCLOPENTADIENE	ug/l			15	U			16	U	16	U
HEXACHLOROETHANE	ug/l			5	U			5	U	5	U
HEXAVALENT CHROMIUM	ug/l			10.0	U			10.0	R	10.0	R
HMX	ug/l	0.90	J			2.0	U				
INDENO(1,2,3-CD)PYRENE	ug/l			0.050	U			0.058	U	0.051	U
IRON	mg/l			0.200	U			0.200	U	0.200	U
ISOPHORONE	ug/l			5	U			5	U	5	U
Isopropanol	ug/l					1000	U				
ISOPROPYLBENZENE	ug/l										
LEAD	mg/l			0.0010	U			0.0010	U	0.0010	U
LITHIUM	mg/l			0.0200	U			0.0200	U	0.0200	U
m,p-Xylene	ug/l										
MAGNESIUM	mg/l			0.100	U			0.100	U	0.100	U
MANGANESE	mg/l			0.0050	U			0.0050	U	0.0050	U
MCPA	ug/l										
MCPP	ug/l										
Mercury	mg/l			0.00020	U			0.00020	UJ	0.00020	UJ
METHANOL	ug/l					1000	U				
METHOXYCHLOR	ug/l										
METHYL TERT-BUTYL ETHER (MTBE)	ug/l										
METHYLENE CHLORIDE	ug/l										
MIREX	ug/l										
MOLYBDENUM	mg/l			0.00050	U			0.00050	U	0.00050	U
m-Terphenyl	mg/l	0.26	U			0.28	U				
NAPHTHALENE	ug/l			0.030	J			0.059	U	0.051	U
N-BUTYLBENZENE	ug/l										
NICKEL	mg/l			0.0020	U			0.0020	U	0.0020	U
Nitrate-NO3	mg/l	0.10	U			0.10	U				
NITROBENZENE	ug/l	0.60	U	5	U	0.60	U	5	U	5	U
Nitroglycerin	ug/l	15	U			15	U				
N-NITROSODIMETHYLAMINE	ng/l	2.00	U			1.07	UJ				
N-NITROSODIMETHYLAMINE	ug/l			0.050	UJ			0.058	UJ	0.051	UJ
N-NITROSO-DI-N-PROPYLAMINE	ug/l			5	U			5	U	5	U
N-NITROSODIPHENYLAMINE	ug/l			5	U			5	U	5	U
N-PROPYLBENZENE	ug/l										
OCDD	pg/l			21.5	U			21.7	U	20.3	U
OCDF	pg/l			21.5	U			21.7	U	20.3	U
O-TERPHENYL	mg/l	0.26	U			0.28	U				
O-XYLENE	ug/l										
PENTACHLOROPHENOL	ug/l			15	U			16	U	16	U
PERCHLORATE	ug/l			2.0	U			2.0	U	2.0	U
PETN	ug/l	18	U			18	U				
PH	pH unit	6.5				6.5	J				
PHENANTHRENE	ug/l			0.050	U			0.058	U	0.051	U
PHENOL	ug/l			5	U			5	U	5	U
PHOSPHORUS	mg/l			0.100	U			0.100	U	0.100	U
P-ISOPROPYLTOLUENE	ug/l										
POTASSIUM	mg/l			0.500	U			0.500	U	0.500	U
Propylene glycol	mg/l	100	U			100	U				
p-Terphenyl	mg/l	0.26	U			0.28	U				
PYRENE	ug/l			0.050	U			0.058	U	0.051	U
RDX	ug/l	2.2				1.6	U				
SEC-BUTYLBENZENE	ug/l										
SELENIUM	mg/l			0.0020	U			0.0020	U	0.0020	U
SILVER	mg/l			0.00050	U			0.00050	U	0.00050	U
SODIUM	mg/l			1.00	U			1.00	U	1.00	U
STRONTIUM	mg/l			0.0050	U			0.0050	U	0.0050	U
STYRENE	ug/l										
TERT-BUTYLBENZENE	ug/l										
TETRACHLOROETHENE	ug/l										
Tetryl	ug/l	0.60	U			0.60	U				
THALLIUM	mg/l			0.00050	U			0.00050	U	0.00050	U
TIN	mg/l			0.0200	U			0.0200	U	0.0200	U
TITANIUM	mg/l			0.0100	U			0.0100	U	0.0100	U
TOLUENE	ug/l										
TOXAPHENE	ug/l										
TRANS-1,2-DICHLOROETHENE	ug/l										
TRANS-1,3-DICHLOROPROPENE	ug/l										
TRICHLOROETHENE	ug/l										
TRICHLOROFLUOROMETHANE	ug/l										
VANADIUM	mg/l			0.00050	U			0.00050	U	0.00050	U
VINYL CHLORIDE	ug/l										
ZINC	mg/l			0.0150	U			0.0150	U	0.0150	U
Zirconium	mg/l			0.0500	U			0.0500	U	0.0500	U

Table C-2 5B Equipment Blank Samples

Sample Name: EPA Sample Name: Sample Date: Sample Type		EB22-SA5B-011411 6184375 01/14/2011 Equipment Blank		EB23-SA5B-012011 6189219 01/20/2011 Equipment Blank		EB24-SA5B-012011 6189222 01/20/2011 Equipment Blank		EB25-SA5B-012111 6189704 01/21/2011 Equipment Blank		EB26-SA5B-012611 6192765 01/26/2011 Equipment Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	ug/l									5	U
1,1,1-TRICHLOROETHANE	ug/l									5	U
1,1,2,2-TETRACHLOROETHANE	ug/l									5	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l									10	U
1,1,2-TRICHLOROETHANE	ug/l									5	U
1,1-DICHLOROETHANE	ug/l									5	U
1,1-DICHLOROETHENE	ug/l									5	U
1,1-DICHLOROPROPENE	ug/l									5	U
1,2,3,4,6,7,8-HPCDD	pg/l			10.2	U	10.7	U			10.1	U
1,2,3,4,6,7,8-HPCDF	pg/l			10.2	U	10.7	U			10.1	U
1,2,3,4,7,8,9-HPCDF	pg/l			10.2	U	10.7	U			10.1	U
1,2,3,4,7,8-HxCDD	pg/l			10.2	U	10.7	U			10.1	U
1,2,3,4,7,8-HxCDF	pg/l			10.2	U	10.7	U			10.1	U
1,2,3,6,7,8-HxCDD	pg/l			10.2	U	10.7	U			10.1	U
1,2,3,6,7,8-HxCDF	pg/l			10.2	U	10.7	U			10.1	U
1,2,3,7,8,9-HxCDF	pg/l			0.299	J	10.7	U			10.1	U
1,2,3,7,8,9-HxCDF	pg/l			10.2	U	10.7	U			10.1	U
1,2,3,7,8-PCDD	pg/l			10.2	U	10.7	U			10.1	U
1,2,3,7,8-PCDF	pg/l			10.2	U	10.7	U			10.1	U
1,2,3-TRICHLOROBENZENE	ug/l									5	U
1,2,3-TRICHLOROPROPANE	ug/l									5	U
1,2,4-TRICHLOROBENZENE	ug/l			5	U	5	U			5	U
1,2,4-TRIMETHYLBENZENE	ug/l									5	U
1,2-DIBROMO-3-CHLOROPROPANE	ug/l									5	U
1,2-Dibromoethane (EDB)	ug/l									5	U
1,2-DICHLOROBENZENE	ug/l			5	U	5	U			5	U
1,2-DICHLOROETHANE	ug/l									5	U
1,2-DICHLOROPROPANE	ug/l									5	U
1,2-Diphenylhydrazine/Azobenzene	ug/l			5	U	5	U				
1,3,5-TRIMETHYLBENZENE	ug/l									5	U
1,3,5-TRINITROBENZENE	ug/l	0.60	U					0.60	U		
1,3-DICHLOROBENZENE	ug/l			5	U	5	U			5	U
1,3-DICHLOROPROPANE	ug/l									5	U
1,3-DINITROBENZENE	ug/l	0.60	U					0.60	U		
1,4-DICHLOROBENZENE	ug/l			5	U	5	U			5	U
1,4-DIOXANE	ug/l									2.0	U
1-METHYLNAPHTHALENE	ug/l									0.050	U
2,2-DICHLOROPROPANE	ug/l									5	U
2,3,4,6,7,8-HxCDF	pg/l			10.2	U	10.7	U			10.1	U
2,3,4,7,8-PCDF	pg/l			10.2	U	10.7	U			10.1	U
2,3,7,8-TCDD	pg/l			2.05	U	2.13	U			2.02	U
2,3,7,8-TCDF	pg/l			2.05	U	2.13	U			2.02	U
2,4,5-T	ug/l										
2,4,5-TP (Silvex)	ug/l										
2,4,5-TRICHLOROPHENOL	ug/l			5	U	5	U				
2,4,6-TRICHLOROPHENOL	ug/l			5	U	5	U				
2,4,6-TRINITROTOLUENE	ug/l	0.60	U					0.60	U		
2,4-D	ug/l										
2,4-DB	ug/l										
2,4-DIAMINO-6-NITROTOLUENE	ug/l	0.60	U					0.60	U		
2,4-DICHLOROPHENOL	ug/l			5	U	5	U				
2,4-DIMETHYLPHENOL	ug/l			10	U	11	U				
2,4-DINITROPHENOL	ug/l			31	U	32	U				
2,4-DINITROTOLUENE	ug/l	0.60	U	5	U	5	U	0.60	U		
2,6-Diamino-4-nitrotoluene	ug/l	0.60	U					0.60	U		
2,6-DINITROTOLUENE	ug/l	0.60	U	5	U	5	U	0.60	U		
2-AMINO-4,6-DINITROTOLUENE	ug/l	0.60	U					0.60	U		
2-BUTANONE (MEK)	ug/l									10	U
2-Chloro-1,1,1-trifluoroethane	ug/l									5	U
2-CHLOROETHYL VINYL ETHER	ug/l									10	U
2-CHLORONAPHTHALENE	ug/l			5	U	5	U				
2-CHLOROPHENOL	ug/l			5	U	5	U				
2-CHLOROTOLUENE	ug/l									5	U
2-HEXANONE	ug/l									10	U
2-METHYLNAPHTHALENE	ug/l									0.050	U
2-METHYLPHENOL	ug/l			5	U	5	U				
2-NITROANILINE	ug/l			5	U	5	U				
2-NITROPHENOL	ug/l			5	U	5	U				
2-NITROTOLUENE	ug/l	0.60	U					0.60	U		
3,3'-DICHLOROBENZIDINE	ug/l			5	U	5	U				
3,5-Dimethylphenol	ug/l			10	U	11	U				
3-NITROANILINE	ug/l			5	U	5	U				
3-NITROTOLUENE	ug/l	1.2	U					1.2	U		
4,4'-DDD	ug/l										
4,4'-DDE	ug/l										
4,4'-DDT	ug/l										
4,6-DINITRO-2-METHYLPHENOL	ug/l			15	U	16	U				
4-AMINO-2,6-DINITROTOLUENE	ug/l	0.60	U					0.60	U		
4-BROMOPHENYL-PHENYLETHER	ug/l			5	U	5	U				
4-CHLORO-3-METHYLPHENOL	ug/l			5	U	5	U				
4-CHLOROANILINE	ug/l			5	U	5	U				
4-CHLOROPHENYL-PHENYLETHER	ug/l			5	U	5	U				
4-CHLOROTOLUENE	ug/l									5	U
4-METHYL-2-PENTANONE (MIBK)	ug/l									10	U
4-METHYLPHENOL	ug/l			5	U	5	U				
4-NITROANILINE	ug/l			5	U	5	U				
4-NITROPHENOL	ug/l			31	U	32	U				
4-NITROTOLUENE	ug/l	1.2	U					1.2	U		
ACENAPHTHENE	ug/l									0.050	U
ACENAPHTHYLENE	ug/l									0.050	U
ACETONE	ug/l									410	
ALDRIN	ug/l										
ALPHA-BHC	ug/l										
ALUMINUM	mg/l			0.200	U	0.200	U			0.200	U
ANILINE	ug/l			5	U	5	U				
ANTHRACENE	ug/l									0.050	U
ANTIMONY	mg/l			0.0010	U	0.0010	U			0.0010	U
Aroclor 1016	ug/l			0.52	U	0.55	U			0.54	U
Aroclor 1221	ug/l			0.52	U	0.55	U			0.54	U
Aroclor 1232	ug/l			0.52	U	0.55	U			0.54	U
Aroclor 1242	ug/l			0.52	U	0.55	U			0.54	U
Aroclor 1248	ug/l			0.52	U	0.55	U			0.54	U
Aroclor 1254	ug/l			0.52	U	0.55	U			0.54	U
Aroclor 1260	ug/l			0.52	U	0.55	U			0.54	U
Aroclor 1262	ug/l			0.52	U	0.55	U			0.54	U
Aroclor 1268	ug/l			0.52	U	0.55	U			0.54	U
Aroclor 5432	ug/l			0.52	UJ	0.55	UJ			0.54	UJ
Aroclor 5442	ug/l			0.52	UJ	0.55	UJ			0.54	UJ
Aroclor 5460	ug/l			0.52	UJ	0.55	UJ			0.54	UJ
Arsenic	mg/l			0.0020	U	0.0020	U			0.0020	U
BARIUM	mg/l			0.0020	U	0.0020	U			0.0020	U
BENZENE	ug/l									5	U
BENZIDINE	ug/l			62	U	65	U				
BENZO(A)ANTHRACENE	ug/l									0.050	U
BENZO(A)PYRENE	ug/l									0.050	U
BENZO(B)FLUORANTHENE	ug/l									0.050	U
BENZO(G,H,I)PERYLENE	ug/l									0.050	U
BENZO(K)FLUORANTHENE	ug/l									0.050	U
BENZOIC ACID	ug/l			15	U	16	U				
BENZYL ALCOHOL	ug/l			15	U	16	U				
BERYLLIUM	mg/l			0.00050	U	0.00050	U			0.00050	U
BETA-BHC	ug/l										
BIS(2-CHLOROETHOXY)METHANE	ug/l			5	U	5	U				
BIS(2-CHLOROETHYL) ETHER	ug/l			5	U	5	U				
BIS(2-CHLOROISOPROPYL) ETHER	ug/l			5	U	5	U				
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l									0.12	J
BORON	mg/l			0.0500	U	0.0500	U			0.0500	U
BROMOBENZENE	ug/l									5	U
BROMOCHLOROMETHANE	ug/l									5	U
BROMODICHLOROMETHANE	ug/l									5	U
BROMOFORM	ug/l									5	U
BROMOMETHANE	ug/l									5	U
Butylbenzylphthalate	ug/l									1.0	U
CADMIUM	mg/l			0.00050	U	0.00050	U			0.00050	U
CALCIUM	mg/l			0.200	U	0.200	U			0.200	U

Table C-2 5B Equipment Blank Samples

Sample Name: EPA Sample Name: Sample Date: Sample Type		EB22-SA5B-011411 6184375 01/14/2011 Equipment Blank		EB23-SA5B-012011 6189219 01/20/2011 Equipment Blank		EB24-SA5B-012011 6189222 01/20/2011 Equipment Blank		EB25-SA5B-012111 6189704 01/21/2011 Equipment Blank		EB26-SA5B-012611 6192765 01/26/2011 Equipment Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
CARBAZOLE	ug/l			5	U	5	U			5	U
CARBON TETRACHLORIDE	ug/l										
Chlordane	ug/l										
Chlorobenzene	ug/l									5	U
Chloroethane	ug/l									5	U
CHLOROFORM	ug/l									5	U
CHLOROMETHANE	ug/l									5	U
Chlorotrifluoroethylene	ug/l									5	U
CHROMIUM	mg/l			0.0020	U	0.0020	U			0.0020	U
CHRYSENE	ug/l									0.050	U
CIS-1,2-DICHLOROETHENE	ug/l									5	U
CIS-1,3-DICHLOROPROPENE	ug/l									5	U
COBALT	mg/l			0.00050	U	0.00050	U			0.00050	U
COPPER	mg/l			0.0020	U	0.0020	U			0.0020	U
CYANIDE	mg/l	0.010	U					0.010	U		
DALAPON	ug/l										
DELTA-BHC	ug/l										
DIBENZO(A,H)ANTHRACENE	ug/l									0.050	U
DIBENZOFURAN	ug/l			5	U	5	U				
DIBROMOCHLOROMETHANE	ug/l									5	U
DIBROMOMETHANE	ug/l									5	U
DICAMBA	ug/l										
DICHLORODIFLUOROMETHANE	ug/l									5	U
DICHLOROPROP	ug/l										
DIELDRIN	ug/l										
DIETHYLENE GLYCOL	mg/l	100	U					100	U		
Diethylphthalate	ug/l									0.15	J
Dimethylphthalate	ug/l									1.0	U
Di-n-butylphthalate	ug/l									1.0	U
Di-n-octylphthalate	ug/l									1.0	U
DINOSEB	ug/l										
EFH (C12-C14)	mg/l	0.63	U					0.63	U		
EFH (C15-C20)	mg/l	0.63	U					0.63	U		
EFH (C21-C30)	mg/l	0.63	U					0.63	U		
EFH (C30-C40)	mg/l	0.63	U					0.63	U		
EFH (C8-C11)	mg/l	0.63	U					0.63	U		
ENDOSULFAN I	ug/l										
ENDOSULFAN II	ug/l										
ENDOSULFAN SULFATE	ug/l										
ENDRIN	ug/l										
ENDRIN ALDEHYDE	ug/l										
ENDRIN KETONE	ug/l										
ETHANOL	ug/l	1000	U					1000	U		
ETHYLBENZENE	ug/l									5	U
ETHYLENE GLYCOL	mg/l	100	U					100	U		
FLUORANTHENE	ug/l									0.050	U
FLUORENE	ug/l									0.050	U
FLUORIDE	mg/l			0.10	U	0.10	U			0.10	U
FORMALDEHYDE	ug/l	50	U					50	U		
gamma-BHC (Lindane)	ug/l										
GASOLINE RANGE ORGANICS (C5-C12)	ug/l	50	U					50	U		
HEPTACHLOR	ug/l										
HEPTACHLOR EPOXIDE	ug/l										
HEXACHLOROBENZENE	ug/l			5	U	5	U				
HEXACHLOROBUTADIENE	ug/l			5	U	5	U			5	U
HEXACHLOROCYCLOPENTADIENE	ug/l			15	U	16	U				
HEXACHLOROETHANE	ug/l			5	U	5	U				
HEXAVALENT CHROMIUM	ug/l			10.0	UJ	10.0	UJ			10.0	U
HMX	ug/l	2.0	U					2.0	U		
INDENO(1,2,3-CD)PYRENE	ug/l									0.050	U
IRON	mg/l			0.200	U	0.200	U			0.200	U
ISOPHORONE	ug/l			5	U	5	U				
Isopropanol	ug/l	1000	U					1000	U		
ISOPROPYLBENZENE	ug/l									5	U
LEAD	mg/l			0.000054	J	0.000072	J			0.0010	U
LITHIUM	mg/l			0.0200	U	0.0200	U			0.0200	U
m,p-Xylene	ug/l									5	U
MAGNESIUM	mg/l			0.100	U	0.100	U			0.100	U
MANGANESE	mg/l			0.0050	U	0.0050	U			0.0050	U
MCPA	ug/l										
MCPP	ug/l										
Mercury	mg/l			0.00020	U	0.00020	U			0.00020	U
METHANOL	ug/l	1000	U					1000	U		
METHOXYCHLOR	ug/l										
METHYL TERT-BUTYL ETHER (MTBE)	ug/l									5	U
METHYLENE CHLORIDE	ug/l									5	U
MIREX	ug/l										
MOLYBDENUM	mg/l			0.00050	U	0.00050	U			0.00050	U
m-Terphenyl	mg/l	0.26	U					0.26	U		
NAPHTHALENE	ug/l									0.020	J
N-BUTYLBENZENE	ug/l									5	U
NICKEL	mg/l			0.0020	U	0.0020	U			0.0020	U
Nitrate-NO3	mg/l	0.10	U					0.10	U		
NITROBENZENE	ug/l	0.60	U	5	U	5	U	0.60	U		
Nitroglycerin	ug/l	15	U					15	U		
N-NITROSODIMETHYLAMINE	ng/l	0.991	U					1.06	U		
N-NITROSODIMETHYLAMINE	ug/l									0.050	UJ
N-NITROSO-DI-N-PROPYLAMINE	ug/l			5	U	5	U				
N-NITROSODIPHENYLAMINE	ug/l			5	U	5	U				
N-PROPYLBENZENE	ug/l									5	U
OCDD	pg/l			20.5	U	21.3	U			20.2	U
OCDF	pg/l			20.5	U	21.3	U			20.2	U
O-TERPHENYL	mg/l	0.26	U					0.26	U		
O-XYLENE	ug/l									5	U
PENTACHLOROPHENOL	ug/l			15	U	16	U				
PERCHLORATE	ug/l			2.0	U	2.0	U			2.0	U
PETN	ug/l	18	U					18	U		
PH	pH unit	6.2	J					6.2	J		
PHENANTHRENE	ug/l									0.050	U
PHENOL	ug/l			5	U	5	U				
PHOSPHORUS	mg/l			0.100	U	0.100	U			0.100	U
P-ISOPROPYLTOLUENE	ug/l									5	U
POTASSIUM	mg/l			0.500	U	0.500	U			0.500	U
Propylene glycol	mg/l	100	U					100	U		
p-Terphenyl	mg/l	0.26	U					0.26	U		
PYRENE	ug/l									0.050	U
RDX	ug/l	1.5						0.60	U		
SEC-BUTYLBENZENE	ug/l									5	U
SELENIUM	mg/l			0.0020	U	0.0020	U			0.0020	U
SILVER	mg/l			0.00050	U	0.00050	U			0.00050	U
SODIUM	mg/l			1.00	U	1.00	U			1.00	U
STRONTIUM	mg/l			0.0050	U	0.0050	U			0.0050	U
STYRENE	ug/l									5	U
TERT-BUTYLBENZENE	ug/l									5	U
TETRACHLOROETHENE	ug/l									5	U
Tetryl	ug/l	0.60	U					0.60	U		
THALLIUM	mg/l			0.00050	U	0.00050	U			0.00050	U
TIN	mg/l			0.0200	U	0.0200	U			0.0200	U
TITANIUM	mg/l			0.0100	U	0.0100	U			0.0100	U
TOLUENE	ug/l									5	U
TOXAPHENE	ug/l										
TRANS-1,2-DICHLOROETHENE	ug/l									5	U
TRANS-1,3-DICHLOROPROPENE	ug/l									5	U
TRICHLOROETHENE	ug/l									5	U
TRICHLOROFLUOROMETHANE	ug/l									5	U
VANADIUM	mg/l			0.00050	U	0.00050	U			0.00050	U
VINYL CHLORIDE	ug/l									5	U
ZINC	mg/l			0.0150	U	0.0150	U			0.0150	U
Zirconium	mg/l			0.0500	U	0.0500	U			0.0500	U

Table C-2 5B Equipment Blank Samples

Sample Name: EPA Sample Name: Sample Date: Sample Type		EB27-SA5B-012711 6193672 01/27/2011 Equipment Blank		EB28-SA5B-020311 6198510 02/03/2011 Equipment Blank		EB29-SA5B-020311 6198511 02/03/2011 Equipment Blank		EB30-SA5B-021511 6206981 02/15/2011 Equipment Blank		EB31-SA5B-021011 6203542 02/10/2011 Equipment Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	ug/l	5	U	5	U	5	U	5	U		
1,1,1-TRICHLOROETHANE	ug/l	5	U	5	U	5	U	5	U		
1,1,2,2-TETRACHLOROETHANE	ug/l	5	U	5	U	5	U	5	U		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	10	U	10	U	10	U	10	U		
1,1,2-TRICHLOROETHANE	ug/l	5	U	5	U	5	U	5	U		
1,1-DICHLOROETHANE	ug/l	5	U	5	U	5	U	5	U		
1,1-DICHLOROETHENE	ug/l	5	U	5	U	5	U	5	U		
1,1-DICHLOROPROPENE	ug/l	5	U	5	U	5	U	5	U		
1,2,3,4,6,7,8-HPCDD	pg/l	10.7	U	9.52	U	9.53	U	10.6	U	10.3	UJ
1,2,3,4,6,7,8-HPCDF	pg/l	10.7	U	9.52	U	9.53	U	10.6	U	3.44	J
1,2,3,4,7,8,9-HPCDF	pg/l	10.7	U	9.52	U	9.53	U	10.6	U	10.3	UJ
1,2,3,4,7,8-HxCDD	pg/l	10.7	U	9.52	U	0.308	J	10.6	U	1.25	J
1,2,3,4,7,8-HxCDF	pg/l	10.7	U	9.52	U	9.53	U	10.6	U	2.61	J
1,2,3,6,7,8-HxCDD	pg/l	10.7	U	9.52	U	9.53	U	10.6	U	3.93	J
1,2,3,6,7,8-HxCDF	pg/l	10.7	U	9.52	U	9.53	U	10.6	U	3.73	J
1,2,3,7,8,9-HxCDD	pg/l	10.7	U	9.52	U	9.53	U	10.6	U	2.52	J
1,2,3,7,8,9-HxCDF	pg/l	10.7	U	9.52	U	9.53	U	10.6	U	2.72	J
1,2,3,7,8-PCDD	pg/l	10.7	U	9.52	U	9.53	U	10.6	U	3.53	J
1,2,3,7,8-PCDF	pg/l	10.7	U	9.52	U	9.53	U	10.6	U	10.3	U
1,2,3-TRICHLOROBENZENE	ug/l	5	U	5	U	5	U	5	U		
1,2,3-TRICHLOROPROPANE	ug/l	5	U	5	U	5	U	5	U		
1,2,4-TRICHLOROBENZENE	ug/l	6	U	5	U	5	U	5	U	5	U
		5	U	5	U	5	U	5	U		
1,2,4-TRIMETHYLBENZENE	ug/l	5	U	5	U	5	U	5	U		
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	5	U	5	U	5	U	5	U		
1,2-Dibromoethane (EDB)	ug/l	5	U	5	U	5	U	5	U		
1,2-DICHLOROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U
		6	U	5	U	5	U	5	U		
1,2-DICHLOROETHANE	ug/l	5	U	5	U	5	U	5	U		
1,2-DICHLOROPROPANE	ug/l	5	U	5	U	5	U	5	U		
1,2-Diphenylhydrazine/Azobenzene	ug/l	6	U	5	U	5	U	5	U	5	U
1,3,5-TRIMETHYLBENZENE	ug/l	5	U	5	U	5	U	5	U		
1,3,5-TRINITROBENZENE	ug/l	0.60	U					0.60	UJ		
1,3-DICHLOROBENZENE	ug/l	6	U	5	U	5	U	5	U	5	U
		5	U	5	U	5	U	5	U		
1,3-DICHLOROPROPANE	ug/l	5	U	5	U	5	U	5	U		
1,3-DINITROBENZENE	ug/l	0.60	U					0.60	UJ		
1,4-DICHLOROBENZENE	ug/l	6	U	5	U	5	U	5	U	5	U
		5	U	5	U	5	U	5	U		
1,4-DIOXANE	ug/l	2.0	U	2.0	U	2.0	U	2.0	U		
1-METHYLNAPHTHALENE	ug/l	0.054	U	0.048	U	0.048	U	0.050	U	0.051	U
2,2-DICHLOROPROPANE	ug/l	5	U	5	U	5	U	5	U		
2,3,4,6,7,8-HXCF	pg/l	10.7	U	9.52	U	9.53	U	10.6	U	1.83	J
2,3,4,7,8-PCDF	pg/l	10.7	U	9.52	U	9.53	U	10.6	U	3.35	J
2,3,7,8-TCDD	pg/l	2.13	U	1.90	U	1.91	U	2.13	U	5.83	
2,3,7,8-TCDF	pg/l	2.13	U	1.90	U	1.91	U	2.13	U	0.956	J
2,4,5-T	ug/l									0.053	U
2,4,5-TP (Silvex)	ug/l									0.053	U
2,4,5-TRICHLOROPHENOL	ug/l	6	U	5	U	5	U	5	U	5	U
2,4,6-TRICHLOROPHENOL	ug/l	6	U	5	U	5	U	5	U	5	U
2,4,6-TRINITROTOLUENE	ug/l	0.60	U					0.60	UJ		
2,4-D	ug/l									0.53	U
2,4-DB	ug/l									1.1	U
2,4-DIAMINO-6-NITROTOLUENE	ug/l	0.60	U					0.60	UJ		
2,4-DICHLOROPHENOL	ug/l	6	U	5	U	5	U	5	U	5	U
2,4-DIMETHYLPHENOL	ug/l	11	U	10	U	10	U	11	U	10	U
2,4-DINITROPHENOL	ug/l	33	U	29	UJ	29	UJ	32	U	31	U
2,4-DINITROTOLUENE	ug/l	6	U	5	U	5	U	5	U	5	U
		0.60	U					0.60	UJ		
2,6-Diamino-4-nitrotoluene	ug/l	0.60	U					0.60	UJ		
2,6-DINITROTOLUENE	ug/l	6	U	5	U	5	U	5	U	5	U
		0.60	U					0.60	UJ		
2-AMINO-4,6-DINITROTOLUENE	ug/l	0.60	U					0.60	UJ		
2-BUTANONE (MEK)	ug/l	10	U	10	U	10	U	10	U		
2-Chloro-1,1,1-trifluoroethane	ug/l	5	U	5	U	5	U	5	U		
2-CHLOROETHYL VINYL ETHER	ug/l	10	U	10	U	10	U	10	U		
2-CHLORONAPHTHALENE	ug/l	6	U	5	U	5	U	5	U	5	U
2-CHLOROPHENOL	ug/l	6	U	5	U	5	U	5	U	5	U
2-CHLOROTOLUENE	ug/l	5	U	5	U	5	U	5	U		
2-HEXANONE	ug/l	10	U	10	U	10	U	10	U		
2-METHYLNAPHTHALENE	ug/l	0.054	U	0.048	U	0.048	U	0.050	U	0.051	U
2-METHYLPHENOL	ug/l	6	U	5	U	5	U	5	U	5	U
2-NITROANILINE	ug/l	6	U	5	U	5	U	5	U	5	U
2-NITROPHENOL	ug/l	6	U	5	U	5	U	5	U	5	U
2-NITROTOLUENE	ug/l	0.60	U					0.60	UJ		
3,3'-DICHLOROBENZIDINE	ug/l	6	U	5	U	5	U	5	U	5	U
3,5-Dimethylphenol	ug/l	11	U	10	U	10	U	11	U	10	U
3-NITROANILINE	ug/l	6	U	5	U	5	U	5	U	5	U
3-NITROTOLUENE	ug/l	1.2	U					1.2	UJ		
4,4'-DDD	ug/l									0.021	U
4,4'-DDE	ug/l									0.021	U
4,4'-DDT	ug/l									0.021	U
4,6-DINITRO-2-METHYLPHENOL	ug/l	17	U	14	UJ	14	UJ	16	U	15	U
4-AMINO-2,6-DINITROTOLUENE	ug/l	0.60	U					0.60	UJ		
4-BROMOPHENYL-PHENYLETHER	ug/l	6	U	5	U	5	U	5	U	5	U
4-CHLORO-3-METHYLPHENOL	ug/l	6	U	5	U	5	U	5	U	5	U
4-CHLOROANILINE	ug/l	6	UJ	5	UJ	5	UJ	5	UJ	5	U
4-CHLOROPHENYL-PHENYLETHER	ug/l	6	U	5	U	5	U	5	U	5	U
4-CHLOROTOLUENE	ug/l	5	U	5	U	5	U	5	U		
4-METHYL-2-PENTANONE (MIBK)	ug/l	10	U	10	U	10	U	10	U		
4-METHYLPHENOL	ug/l	6	U	5	U	5	U	5	U	5	U
4-NITROANILINE	ug/l	6	U	5	U	5	U	5	U	5	U
4-NITROPHENOL	ug/l	33	U	29	U	29	U	32	U	31	U
4-NITROTOLUENE	ug/l	1.2	U					1.2	UJ		
ACENAPHTHENE	ug/l	0.054	U	0.048	U	0.048	U	0.050	U	0.051	U
ACENAPHTHYLENE	ug/l	0.054	U	0.048	U	0.048	U	0.050	U	0.051	U
ACETONE	ug/l	20	U	9	J	20	U	20	U		
ALDRIN	ug/l									0.011	U
ALPHA-BHC	ug/l									0.011	U
ALUMINUM	mg/l	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
ANILINE	ug/l	6	U	5	U	5	U	5	U	5	U
ANTHRACENE	ug/l	0.054	U	0.048	U	0.048	U	0.050	U	0.051	U
ANTIMONY	mg/l	0.0010	U	0.0010	U	0.0010	U	0.0010	U	0.0010	U
Aroclor 1016	ug/l	0.54	U	0.48	U	0.49	U	0.50	U	0.53	U
Aroclor 1221	ug/l	0.54	U	0.48	U	0.49	U	0.50	U	0.53	U
Aroclor 1232	ug/l	0.54	U	0.48	U	0.49	U	0.50	U	0.53	U
Aroclor 1242	ug/l	0.54	U	0.48	U	0.49	U	0.50	U	0.53	U
Aroclor 1248	ug/l	0.54	U	0.48	U	0.49	U	0.50	U	0.53	U
Aroclor 1254	ug/l	0.54	U	0.48	U	0.49	U	0.50	U	0.53	U
Aroclor 1260	ug/l	0.54	U	0.48	U	0.49	U	0.50	U	0.53	U
Aroclor 1262	ug/l	0.54	U	0.48	U	0.49	U	0.50	U	0.53	U
Aroclor 1268	ug/l	0.54	U	0.48	U	0.49	U	0.50	U	0.53	U
Aroclor 5432	ug/l	0.54	UJ	0.48	UJ	0.49	UJ	0.50	UJ	0.53	UJ
Aroclor 5442	ug/l	0.54	UJ	0.48	UJ	0.49	UJ	0.50	UJ	0.53	UJ
Aroclor 5460	ug/l	0.54	UJ	0.48	UJ	0.49	UJ	0.50	UJ	0.53	UJ
Arsenic	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
BARIUM	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
BENZENE	ug/l	5	U	5	U	5	U	5	U		
BENZIDINE	ug/l	66	U	58	U	58	U	63	U	61	U
BENZO(A)ANTHRACENE	ug/l	0.054	U	0.048	U	0.048	U	0.050	U	0.051	U
BENZO(A)PYRENE	ug/l	0.054	U	0.048	U	0.048	U	0.050	U	0.051	U
BENZO(B)FLUORANTHENE	ug/l	0.054	U	0.048	U	0.048	U	0.050	U	0.051	U
BENZO(G,H,I)PERYLENE	ug/l	0.054	U	0.048	U	0.048	U	0.050	U	0.051	U
BENZO(K)FLUORANTHENE	ug/l	0.054	U	0.048	U	0.048	U	0.050	U	0.051	U
BENZOIC ACID	ug/l	17	U	14	UJ	14	UJ	16	U	15	U
BENZYL ALCOHOL	ug/l	17	U	14	U	14	U	16	U	15	U
BERYLLIUM	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
BETA-BHC	ug/l									0.011	U
BIS(2-CHLOROETHOXY)METHANE	ug/l	6	U	5	U	5	U	5	U	5	U
BIS(2-CHLOROETHYL) ETHER	ug/l	6	U	5	U	5	U	5	U	5	U
BIS(2-CHLOROISOPROPYL) ETHER	ug/l	6	U	5	U	5	U	5	U	5	U
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	1.1	U	0.96	U	0.97	U	1.0	UJ	1.0	UJ
BORON	mg/l	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U
BROMOBENZENE	ug/l	5	U	5	U						

Table C-2 5B Equipment Blank Samples

Sample Name: EPA Sample Name: Sample Date: Sample Type		EB27-SA5B-012711 6193672 01/27/2011 Equipment Blank		EB28-SA5B-020311 6198510 02/03/2011 Equipment Blank		EB29-SA5B-020311 6198511 02/03/2011 Equipment Blank		EB30-SA5B-021511 6206981 02/15/2011 Equipment Blank		EB31-SA5B-021011 6203542 02/10/2011 Equipment Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
CARBAZOLE	ug/l	6	U	5	U	5	U	5	U	5	U
CARBON TETRACHLORIDE	ug/l	5	U	5	U	5	U	5	U		
Chlordane	ug/l									0.53	U
Chlorobenzene	ug/l	5	U	5	U	5	U	5	U		
Chloroethane	ug/l	5	U	5	U	5	U	5	U		
CHLOROFORM	ug/l	5	U	5	U	5	U	5	U		
CHLOROMETHANE	ug/l	5	U	5	U	5	U	5	U		
Chlorotrifluoroethylene	ug/l	5	U	5	U	5	U	5	U		
CHROMIUM	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
CHRYSENE	ug/l	0.054	U	0.048	U	0.048	U	0.050	U	0.051	U
CIS-1,2-DICHLOROETHENE	ug/l	5	U	5	U	5	U	5	U		
CIS-1,3-DICHLOROPROPENE	ug/l	5	U	5	U	5	U	5	U		
COBALT	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
COPPER	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
CYANIDE	mg/l	0.010	U					0.010	U		
DALAPON	ug/l									1.3	U
DELTA-BHC	ug/l									0.011	U
DIBENZO(A,H)ANTHRACENE	ug/l	0.054	U	0.048	U	0.048	U	0.050	U	0.051	U
DIBENZOFURAN	ug/l	6	U	5	U	5	U	5	U	5	U
DIBROMOCHLOROMETHANE	ug/l	5	U	5	U	5	U	5	U		
DIBROMOMETHANE	ug/l	5	U	5	U	5	U	5	U		
DICAMBA	ug/l									0.32	U
DICHLORODIFLUOROMETHANE	ug/l	5	U	5	U	5	U	5	U		
DICHLOROPROP	ug/l									0.53	U
DIELDRIN	ug/l									0.021	U
DIETHYLENE GLYCOL	mg/l	100	U					100	UJ		
Diethylphthalate	ug/l	0.21	J	0.16	J	0.16	J	0.19	J	0.14	J
Dimethylphthalate	ug/l	1.1	U	0.96	UJ	0.97	UJ	1.0	UJ	1.0	UJ
Di-n-butylphthalate	ug/l	1.1	U	0.39	J	0.51	J	1.0	U	1.0	U
Di-n-octylphthalate	ug/l	1.1	U	0.96	U	0.97	U	1.0	UJ	1.0	U
DINOSEB	ug/l									0.53	U
EFH (C12-C14)	mg/l	0.61	U					0.59	U		
EFH (C15-C20)	mg/l	0.61	U					0.59	U		
EFH (C21-C30)	mg/l	0.61	U					0.59	U		
EFH (C30-C40)	mg/l	0.61	U					0.59	U		
EFH (C8-C11)	mg/l	0.61	U					0.59	U		
ENDOSULFAN I	ug/l									0.011	U
ENDOSULFAN II	ug/l									0.021	U
ENDOSULFAN SULFATE	ug/l									0.021	U
ENDRIN	ug/l									0.021	UJ
ENDRIN ALDEHYDE	ug/l									0.11	U
ENDRIN KETONE	ug/l									0.021	U
ETHANOL	ug/l	1000	U					1000	U		
ETHYLBENZENE	ug/l	5	U	5	U	5	U	5	U		
ETHYLENE GLYCOL	mg/l	100	U					100	U		
FLUORANTHENE	ug/l	0.054	U	0.048	U	0.048	U	0.050	U	0.051	U
FLUORENE	ug/l	0.054	U	0.048	U	0.048	U	0.050	U	0.051	U
FLUORIDE	mg/l	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
FORMALDEHYDE	ug/l	50	U					50	U		
gamma-BHC (Lindane)	ug/l									0.011	U
GASOLINE RANGE ORGANICS (C5-C12)	ug/l	50	UJ					50	U		
HEPTACHLOR	ug/l									0.011	U
HEPTACHLOR EPOXIDE	ug/l									0.011	U
HEXACHLOROBENZENE	ug/l	6	U	5	U	5	U	5	U	5	U
HEXACHLOROBUTADIENE	ug/l	5	U	5	U	5	U	5	U	5	U
		6	U	5	U	5	U	5	U		
HEXACHLOROCYCLOPENTADIENE	ug/l	17	U	14	U	14	U	16	U	15	U
HEXACHLOROETHANE	ug/l	6	U	5	U	5	U	5	U	5	U
HEXAVALENT CHROMIUM	ug/l	10.0	UJ	10.0	R	10.0	R	10.0	U	10.0	U
HMX	ug/l	2.0	U					2.0	UJ		
INDENO(1,2,3-CD)PYRENE	ug/l	0.054	U	0.048	U	0.048	U	0.050	U	0.051	U
IRON	mg/l	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
ISOPHORONE	ug/l	6	U	5	U	5	U	5	U	5	U
Isopropanol	ug/l	1000	U					1000	U		
ISOPROPYLBENZENE	ug/l	5	U	5	U	5	U	5	U		
LEAD	mg/l	0.0010	U	0.0010	U	0.0010	U	0.0010	U	0.0010	U
LITHIUM	mg/l	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U
m,p-Xylene	ug/l	5	U	5	U	5	U	5	U		
MAGNESIUM	mg/l	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U
MANGANESE	mg/l	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
MCPA	ug/l									1100	U
MCPP	ug/l									210	U
Mercury	mg/l	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U
METHANOL	ug/l	1000	U					1000	U		
METHOXYCHLOR	ug/l									0.11	U
METHYL TERT-BUTYL ETHER (MTBE)	ug/l	5	U	5	U	5	U	5	U		
METHYLENE CHLORIDE	ug/l	4	J	2	J	4	J	5	U		
MIREX	ug/l									0.26	U
MOLYBDENUM	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
m-Terphenyl	mg/l	0.26	U					0.26	U		
NAPHTHALENE	ug/l	0.025	J	0.014	J	0.024	J	0.019	J	0.019	J
N-BUTYLBENZENE	ug/l	5	U	5	U	5	U	5	U		
NICKEL	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Nitrate-NO3	mg/l	0.10	U					0.10	U		
NITROBENZENE	ug/l	6	U	5	U	5	U	5	U	5	U
		0.60	U					0.60	UJ		
Nitroglycerin	ug/l	15	U					15	UJ		
N-NITROSODIMETHYLAMINE	ng/l	2.35	U					1.04	U		
N-NITROSODIMETHYLAMINE	ug/l	0.054	UJ	0.048	UJ	0.048	UJ	0.050	U	0.051	U
N-NITROSO-DI-N-PROPYLAMINE	ug/l	6	U	5	U	5	U	5	U	5	U
N-NITROSODIPHENYLAMINE	ug/l	6	U	5	U	5	U	5	U	5	U
N-PROPYLBENZENE	ug/l	5	U	5	U	5	U	5	U		
OCDD	pg/l	21.3	U	19.0	U	19.1	U	21.3	U	20.5	UJ
OCDF	pg/l	21.3	U	19.0	U	19.1	U	21.3	U	20.5	UJ
O-TERPHENYL	mg/l	0.26	U					0.26	U		
O-XYLENE	ug/l	5	U	5	U	5	U	5	U		
PENTACHLOROPHENOL	ug/l	17	U	14	U	14	U	16	U	15	U
PERCHLORATE	ug/l	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
PETN	ug/l	18	U					18	UJ		
PH	pH unit	5.4	J					5.6	J		
PHENANTHRENE	ug/l	0.013	J	0.048	U	0.048	U	0.050	U	0.051	U
PHENOL	ug/l	6	U	5	U	5	U	5	U	5	U
PHOSPHORUS	mg/l	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U
P-ISOPROPYLTOLUENE	ug/l	5	U	5	U	5	U	5	U		
POTASSIUM	mg/l	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
Propylene glycol	mg/l	100	U					100	U		
p-Terphenyl	mg/l	0.26	U					0.26	U		
PYRENE	ug/l	0.054	U	0.048	U	0.048	U	0.050	U	0.051	U
RDX	ug/l	1.7	U					0.60	UJ		
SEC-BUTYLBENZENE	ug/l	5	U	5	U	5	U	5	U		
SELENIUM	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
SILVER	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
SODIUM	mg/l	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
STRONTIUM	mg/l	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
STYRENE	ug/l	5	U	5	U	5	U	5	U		
TERT-BUTYLBENZENE	ug/l	5	U	5	U	5	U	5	U		
TETRACHLOROETHENE	ug/l	5	U	5	U	5	U	5	U		
Tetryl	ug/l	0.60	U					0.60	UJ		
THALLIUM	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
TIN	mg/l	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U
TITANIUM	mg/l	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U
TOLUENE	ug/l	5	U	5	U	5	U	0.9	J		
TOXAPHENE	ug/l									3.2	U
TRANS-1,2-DICHLOROETHENE	ug/l	5	U	5	U	5	U	5	U		
TRANS-1,3-DICHLOROPROPENE	ug/l	5	U	5	U	5	U	5	U		
TRICHLOROETHENE	ug/l	5	U	5	U	5	U	5	U		
TRICHLOROFLUOROMETHANE	ug/l	5	U	5	U	5	U	5	U		
VANADIUM	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
VINYL CHLORIDE	ug/l	5	U	5	U	5	U	5	U		
ZINC	mg/l	0.0150	U	0.0150	U	0.0150	U	0.0150	U	0.0150	U
Zirconium	mg/l	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U

Table C-3 5B Field Blanks

Sample Name:		FB06-SA5B-122210	
EPA Sample Name:		6173162	
Sample Date:		12/22/2010	
Sample Type		Field Blank	
Analyte	Units	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	ug/l	5	U
1,1,1-TRICHLOROETHANE	ug/l	5	U
1,1,2-TETRACHLOROETHANE	ug/l	5	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	10	U
1,1,2-TRICHLOROETHANE	ug/l	5	U
1,1-DICHLOROETHANE	ug/l	5	U
1,1-DICHLOROETHENE	ug/l	5	U
1,1-DICHLOROPROPENE	ug/l	5	U
1,2,3,4,6,7,8-HPCDD	pg/l	10.0	U
1,2,3,4,6,7,8-HPCDF	pg/l	10.0	U
1,2,3,4,7,8,9-HPCDF	pg/l	10.0	U
1,2,3,4,7,8-HxCDD	pg/l	10.0	U
1,2,3,4,7,8-HxCDF	pg/l	10.0	U
1,2,3,6,7,8-HxCDD	pg/l	10.0	U
1,2,3,6,7,8-HxCDF	pg/l	10.0	U
1,2,3,7,8,9-HxCDD	pg/l	10.0	U
1,2,3,7,8,9-HxCDF	pg/l	10.0	U
1,2,3,7,8-PECDD	pg/l	10.0	U
1,2,3,7,8-PECDF	pg/l	10.0	U
1,2,3-TRICHLOROBENZENE	ug/l	5	U
1,2,3-TRICHLOROPROPANE	ug/l	5	U
1,2,4-TRICHLOROBENZENE	ug/l	5	U
		5	U
1,2,4-TRIMETHYLBENZENE	ug/l	5	U
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	5	U
1,2-Dibromoethane (EDB)	ug/l	5	U
1,2-DICHLOROBENZENE	ug/l	5	U
		5	U
1,2-DICHLOROETHANE	ug/l	5	U
1,2-DICHLOROPROPANE	ug/l	5	U
1,2-Diphenylhydrazine/Azobenzene	ug/l	5	U
1,3,5-TRIMETHYLBENZENE	ug/l	5	U
1,3,5-TRINITROBENZENE	ug/l	0.60	U
1,3-DICHLOROBENZENE	ug/l	5	U
		5	U
1,3-DICHLOROPROPANE	ug/l	5	U
1,3-DINITROBENZENE	ug/l	0.60	U
1,4-DICHLOROBENZENE	ug/l	5	U
		5	U
1,4-DIOXANE	ug/l	2.0	U
1-METHYLNAPHTHALENE	ug/l	0.017	J
2,2-DICHLOROPROPANE	ug/l	5	U
2,3,4,6,7,8-HxCDF	pg/l	10.0	U
2,3,4,7,8-PECDF	pg/l	10.0	U
2,3,7,8-TCDD	pg/l	2.01	U
2,3,7,8-TCDF	pg/l	2.01	U
2,4,5-T	ug/l	0.050	U
2,4,5-TP (Silvex)	ug/l	0.050	U
2,4,5-TRICHLOROPHENOL	ug/l	5	U
2,4,6-TRICHLOROPHENOL	ug/l	5	U
2,4,6-TRINITROTOLUENE	ug/l	0.60	U
2,4-D	ug/l	0.50	U
2,4-DB	ug/l	1.0	U
2,4-DIAMINO-6-NITROTOLUENE	ug/l	0.60	U
2,4-DICHLOROPHENOL	ug/l	5	U
2,4-DIMETHYLPHENOL	ug/l	10	U
2,4-DINITROPHENOL	ug/l	29	U
2,4-DINITROTOLUENE	ug/l	5	U
		0.60	U
2,6-Diamino-4-nitrotoluene	ug/l	0.60	U
2,6-DINITROTOLUENE	ug/l	5	U
		0.60	U
2-AMINO-4,6-DINITROTOLUENE	ug/l	0.60	U
2-BUTANONE (MEK)	ug/l	10	U
2-Chloro-1,1,1-trifluoroethane	ug/l	5	U
2-CHLOROETHYL VINYL ETHER	ug/l	10	U
2-CHLORONAPHTHALENE	ug/l	5	U
2-CHLOROPHENOL	ug/l	5	U
2-CHLOROTOLUENE	ug/l	5	U
2-HEXANONE	ug/l	10	U
2-METHYLNAPHTHALENE	ug/l	0.022	J
2-METHYLPHENOL	ug/l	5	U
2-NITROANILINE	ug/l	5	U
2-NITROPHENOL	ug/l	5	U
2-NITROTOLUENE	ug/l	0.60	U
3,3'-DICHLOROBENZIDINE	ug/l	5	U
3,5-Dimethylphenol	ug/l	10	U
3-NITROANILINE	ug/l	5	U
3-NITROTOLUENE	ug/l	1.2	U
4,4'-DDD	ug/l	0.020	U
4,4'-DDE	ug/l	0.020	U
4,4'-DDT	ug/l	0.020	U
4,6-DINITRO-2-METHYLPHENOL	ug/l	14	U
4-AMINO-2,6-DINITROTOLUENE	ug/l	0.60	U
4-BROMOPHENYL-PHENYLETHER	ug/l	5	U
4-CHLORO-3-METHYLPHENOL	ug/l	5	U
4-CHLOROANILINE	ug/l	5	U
4-CHLOROPHENYL-PHENYLETHER	ug/l	5	U
4-CHLOROTOLUENE	ug/l	5	U
4-METHYL-2-PENTANONE (MIBK)	ug/l	10	U
4-METHYLPHENOL	ug/l	5	U
4-NITROANILINE	ug/l	5	U
4-NITROPHENOL	ug/l	29	U
4-NITROTOLUENE	ug/l	1.2	U
ACENAPHTHENE	ug/l	0.052	U
ACENAPHTHYLENE	ug/l	0.052	U
ACETONE	ug/l	20	U
ALDRIN	ug/l	0.010	U
ALPHA-BHC	ug/l	0.010	U
ALUMINUM	mg/l	0.200	U
ANILINE	ug/l	5	U
ANTHRACENE	ug/l	0.052	U
ANTIMONY	mg/l	0.0010	U
Aroclor 1016	ug/l	0.50	U
Aroclor 1221	ug/l	0.50	U
Aroclor 1232	ug/l	0.50	U
Aroclor 1242	ug/l	0.50	U
Aroclor 1248	ug/l	0.50	U
Aroclor 1254	ug/l	0.50	U
Aroclor 1260	ug/l	0.50	U
Aroclor 1262	ug/l	0.50	U
Aroclor 1268	ug/l	0.50	U
Aroclor 5432	ug/l	0.50	UJ
Aroclor 5442	ug/l	0.50	UJ
Aroclor 5460	ug/l	0.50	UJ
Arsenic	mg/l	0.0020	U
BARIUM	mg/l	0.0020	U
BENZENE	ug/l	5	U
BENZIDINE	ug/l	57	U
BENZO(A)ANTHRACENE	ug/l	0.052	U
BENZO(A)PYRENE	ug/l	0.052	U
BENZO(B)FLUORANTHENE	ug/l	0.052	U
BENZO(G,H,I)PERYLENE	ug/l	0.052	U
BENZO(K)FLUORANTHENE	ug/l	0.052	U
BENZOIC ACID	ug/l	14	U
BENZYL ALCOHOL	ug/l	14	U
BERYLLIUM	mg/l	0.00050	U
BETA-BHC	ug/l	0.010	U
BIS(2-CHLOROETHOXY)METHANE	ug/l	5	U
BIS(2-CHLOROETHYL) ETHER	ug/l	5	U
BIS(2-CHLOROISOPROPYL) ETHER	ug/l	5	U
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	1.0	UJ
BORON	mg/l	0.0500	U
BROMOBENZENE	ug/l	5	U
BROMOCHLOROMETHANE	ug/l	5	U
BROMODICHLOROMETHANE	ug/l	5	U
BROMOFORM	ug/l	5	U
BROMOMETHANE	ug/l	5	U

Table C-3 5B Field Blanks

Sample Name:		FB06-SA5B-122210	
EPA Sample Name:		6173162	
Sample Date:		12/22/2010	
Sample Type:		Field Blank	
Analyte	Units	Concentration	Final Qualifer
Butylbenzylphthalate	ug/l	1.0	U
CADMIUM	mg/l	0.00050	U
CALCIUM	mg/l	0.200	U
CARBAZOLE	ug/l	5	U
CARBON TETRACHLORIDE	ug/l	5	U
Chlordane	ug/l	0.50	U
Chlorobenzene	ug/l	5	U
Chloroethane	ug/l	5	U
CHLOROFORM	ug/l	1	J
CHLOROMETHANE	ug/l	5	U
Chlorotrifluoroethylene	ug/l	5	U
CHROMIUM	mg/l	0.0020	U
CHRYSENE	ug/l	0.052	U
CIS-1,2-DICHLOROETHENE	ug/l	5	U
CIS-1,3-DICHLOROPROPENE	ug/l	5	U
COBALT	mg/l	0.00050	U
COPPER	mg/l	0.0020	U
CYANIDE	mg/l	0.010	U
DALAPON	ug/l	1.2	U
DELTA-BHC	ug/l	0.010	U
DIBENZO(A,H)ANTHRACENE	ug/l	0.052	U
DIBENZOFURAN	ug/l	5	U
DIBROMOCHLOROMETHANE	ug/l	5	U
DIBROMOMETHANE	ug/l	5	U
DICAMBA	ug/l	0.30	U
DICHLORODIFLUOROMETHANE	ug/l	5	U
DICHLOROPROP	ug/l	0.50	U
DIELDRIN	ug/l	0.020	U
DIETHYLENE GLYCOL	mg/l	100	U
Diethylphthalate	ug/l	1.0	U
Dimethylphthalate	ug/l	1.0	UJ
Di-n-butylphthalate	ug/l	0.069	J
Di-n-octylphthalate	ug/l	1.0	U
DINOSEB	ug/l	0.50	U
EFH (C12-C14)	mg/l	0.60	U
EFH (C15-C20)	mg/l	0.60	U
EFH (C21-C30)	mg/l	0.60	U
EFH (C30-C40)	mg/l	0.60	U
EFH (C8-C11)	mg/l	0.60	U
ENDOSULFAN I	ug/l	0.010	U
ENDOSULFAN II	ug/l	0.020	U
ENDOSULFAN SULFATE	ug/l	0.020	U
ENDRIN	ug/l	0.020	U
ENDRIN ALDEHYDE	ug/l	0.10	U
ENDRIN KETONE	ug/l	0.020	U
ETHANOL	ug/l	1000	U
ETHYLBENZENE	ug/l	5	U
ETHYLENE GLYCOL	mg/l	100	U
FLUORANTHENE	ug/l	0.052	U
FLUORENE	ug/l	0.052	U
FLUORIDE	mg/l	0.10	U
FORMALDEHYDE	ug/l	50	U
gamma-BHC (Lindane)	ug/l	0.010	U
GASOLINE RANGE ORGANICS (C5-C12)	ug/l	50	U
HEPTACHLOR	ug/l	0.010	U
HEPTACHLOR EPOXIDE	ug/l	0.010	U
HEXACHLOROENZENE	ug/l	5	U
HEXACHLOROBUTADIENE	ug/l	5	U
HEXACHLOROCYCLOPENTADIENE	ug/l	14	U
HEXACHLOROETHANE	ug/l	5	U
HEXAVALENT CHROMIUM	ug/l	10.0	U
HMX	ug/l	2.0	U
INDENO(1,2,3-CD)PYRENE	ug/l	0.052	U
IRON	mg/l	0.200	U
ISOPHORONE	ug/l	5	U
Isopropanol	ug/l	1000	U
ISOPROPYL BENZENE	ug/l	5	U
LEAD	mg/l	0.0010	U
LITHIUM	mg/l	0.0200	U
m,p-Xylene	ug/l	5	U
MAGNESIUM	mg/l	0.100	U
MANGANESE	mg/l	0.0050	U
MCPA	ug/l	1000	U
MCPP	ug/l	200	U
Mercury	mg/l	0.00020	U
METHANOL	ug/l	1000	U
METHOXYCHLOR	ug/l	0.10	U
METHYL TERT-BUTYL ETHER (MTBE)	ug/l	5	U
METHYLENE CHLORIDE	ug/l	5	U
MIREX	ug/l	0.25	U
MOLYBDENUM	mg/l	0.00050	U
m-Terphenyl	mg/l	0.26	U
NAPHTHALENE	ug/l	0.29	U
N-BUTYLBENZENE	ug/l	5	U
NICKEL	mg/l	0.0020	U
Nitrate-NO3	mg/l	0.10	U
NITROBENZENE	ug/l	5	U
		0.60	U
Nitroglycerin	ug/l	15	U
N-NITROSODIMETHYLAMINE	ng/l	1.82	U
N-NITROSODIMETHYLAMINE	ug/l	0.052	UJ
N-NITROSO-DI-N-PROPYLAMINE	ug/l	5	U
N-NITROSODIPHENYLAMINE	ug/l	5	U
N-PROPYLBENZENE	ug/l	5	U
OCDD	pg/l	20.1	U
OCDF	pg/l	20.1	U
O-TERPHENYL	mg/l	0.26	U
O-XYLENE	ug/l	5	U
PENTACHLOROPHENOL	ug/l	14	U
PERCHLORATE	ug/l	2.0	U
PETN	ug/l	18	U
PHENANTHRENE	ug/l	0.052	U
PHENOL	ug/l	5	U
PHOSPHORUS	mg/l	0.100	U
P-ISOPROPYLTOLUENE	ug/l	5	U
POTASSIUM	mg/l	0.500	U
Propylene glycol	mg/l	100	U
p-Terphenyl	mg/l	0.26	U
PYRENE	ug/l	0.052	U
RDX	ug/l	0.60	U
SEC-BUTYLBENZENE	ug/l	5	U
SELENIUM	mg/l	0.0020	U
SILVER	mg/l	0.00050	U
SODIUM	mg/l	1.00	U
STRONTIUM	mg/l	0.0050	U
STYRENE	ug/l	5	U
TERT-BUTYLBENZENE	ug/l	5	U
TETRACHLOROETHENE	ug/l	5	U
Tetryl	ug/l	0.60	U
THALLIUM	mg/l	0.00050	U
TIN	mg/l	0.0200	U
TITANIUM	mg/l	0.0100	U
TOLUENE	ug/l	5	U
TOXAPHENE	ug/l	3.0	U
TRANS-1,2-DICHLOROETHENE	ug/l	5	U
TRANS-1,3-DICHLOROPROPENE	ug/l	5	U
TRICHLOROETHENE	ug/l	5	U
TRICHLOROFLUOROMETHANE	ug/l	5	U
VANADIUM	mg/l	0.00050	U
VINYL CHLORIDE	ug/l	5	U
ZINC	mg/l	0.0150	U
Zirconium	mg/l	0.0500	U

Table C-4 5B Trip Blank Samples

Sample Name: EPA Sample Name: Sample Date: Sample Type		TB-120810 6162859 12/08/2010 Trip Blank		TB-120910 6162869 12/09/2010 Trip Blank		TB-121410 6164943 12/14/2010 Trip Blank		TB-121510 6166200 12/15/2010 Trip Blank		TB-121610 6167530 12/16/2010 Trip Blank		TB-121710 6169030 12/17/2010 Trip Blank		TB-121810 6172869 12/20/2010 Trip Blank
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration
1,1,1,2-Tetrachloroethane	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,1,1-TRICHLOROETHANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,1,2,2-TETRACHLOROETHANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	10	U	10	U			10	U	10	U	10	U	10
1,1,2-TRICHLOROETHANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,1-DICHLOROETHANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,1-DICHLOROETHENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,1-DICHLOROPROPENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,2,3-TRICHLOROBENZENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,2,3-TRICHLOROPROPANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,2,4-TRICHLOROBENZENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,2,4-TRIMETHYLBENZENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,2-Dibromoethane (EDB)	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,2-DICHLOROBENZENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,2-DICHLOROETHANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,2-DICHLOROPROPANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,3,5-TRIMETHYLBENZENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,3-DICHLOROBENZENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,3-DICHLOROPROPANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,4-DICHLOROBENZENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
1,4-DIOXANE	ug/l	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
2,2-DICHLOROPROPANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
2-BUTANONE (MEK)	ug/l	10	U	10	U			10	U	10	U	10	U	10
2-Chloro-1,1,1-trifluoroethane	ug/l	5	U	5	U			5	U	5	U	5	U	5
2-CHLOROETHYL VINYL ETHER	ug/l	10	U	10	U			10	U	10	U	10	U	10
2-CHLOROTOLUENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
2-HEXANONE	ug/l	10	U	10	U			10	U	10	U	10	U	10
4-CHLOROTOLUENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
4-METHYL-2-PENTANONE (MIBK)	ug/l	10	U	10	U			10	U	10	U	10	U	10
ACETONE	ug/l	20	U	20	U			20	U	20	U	20	U	20
BENZENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
BROMOBENZENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
BROMOCHLOROMETHANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
BROMODICHLOROMETHANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
BROMOFORM	ug/l	5	U	5	U			5	U	5	U	5	U	5
BROMOMETHANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
CARBON TETRACHLORIDE	ug/l	5	U	5	U			5	U	5	U	5	U	5
Chlorobenzene	ug/l	5	U	5	U			5	U	5	U	5	U	5
Chloroethane	ug/l	5	U	5	U			5	U	5	U	5	U	5
CHLOROFORM	ug/l	5	U	5	U			5	U	5	U	5	U	5
CHLOROMETHANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
Chlorotrifluoroethylene	ug/l	5	U	5	U			5	U	5	U	5	U	5
CIS-1,2-DICHLOROETHENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
CIS-1,3-DICHLOROPROPENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
DIBROMOCHLOROMETHANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
DIBROMOMETHANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
DICHLORODIFLUOROMETHANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
ETHYLBENZENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
GASOLINE RANGE ORGANICS (C5-C12)	ug/l	50	UJ	50	U	50	U	50	UJ	50	U	50	U	50
HEXACHLOROBUTADIENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
ISOPROPYLBENZENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
m,p-Xylene	ug/l	5	U	5	U			5	U	5	U	5	U	5
METHYL TERT-BUTYL ETHER (MTBE)	ug/l	5	U	5	U			5	U	5	U	5	U	5
METHYLENE CHLORIDE	ug/l	5	U	5	U			5	U	5	U	5	U	5
N-BUTYLBENZENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
N-PROPYLBENZENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
O-XYLENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
P-ISOPROPYLTOLUENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
SEC-BUTYLBENZENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
STYRENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
TERT-BUTYLBENZENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
TETRACHLOROETHENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
TOLUENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
TRANS-1,2-DICHLOROETHENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
TRANS-1,3-DICHLOROPROPENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
TRICHLOROETHENE	ug/l	5	U	5	U			5	U	5	U	5	U	5
TRICHLOROFLUOROMETHANE	ug/l	5	U	5	U			5	U	5	U	5	U	5
VINYL CHLORIDE	ug/l	5	U	5	U			5	U	5	U	5	U	5

Table C-4 5B Trip Blank Samples

Sample Name: 2010 EPA Sample Name: 096 Sample Date: /2010 Sample Type:Blank			TB-122110 6172119 12/21/2010 Trip Blank		TB-122210 6173178 12/22/2010 Trip Blank		TB-010411 6177808 01/04/2011 Trip Blank		TB-010511 6178523 01/05/2011 Trip Blank		TB-010611 6179377 01/06/2011 Trip Blank		TB-010711 6180118 01/07/2011 Trip Blank	
Analyte	Units	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,1-TRICHLOROETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-TETRACHLOROETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1,2-TRICHLOROETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-DICHLOROETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-DICHLOROETHENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-DICHLOROPROPENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,3-TRICHLOROBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,3-TRICHLOROPROPANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4-TRICHLOROBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4-TRIMETHYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dibromoethane (EDB)	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-DICHLOROBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-DICHLOROETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-DICHLOROPROPANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3,5-TRIMETHYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3-DICHLOROBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3-DICHLOROPROPANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,4-DICHLOROBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,4-DIOXANE	ug/l	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
2,2-DICHLOROPROPANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
2-BUTANONE (MEK)	ug/l	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Chloro-1,1,1-trifluoroethane	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
2-CHLOROETHYL VINYL ETHER	ug/l	U	10	U	10	U	10	U	10	U	10	U	10	U
2-CHLOROTOLUENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
2-HEXANONE	ug/l	U	10	U	10	U	10	U	10	U	10	U	10	U
4-CHLOROTOLUENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
4-METHYL-2-PENTANONE (MIBK)	ug/l	U	10	U	10	U	10	U	10	U	10	U	10	U
ACETONE	ug/l	U	20	U	20	U	20	U	20	U	20	U	20	U
BENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
BROMOBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
BROMOCHLOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
BROMODICHLOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
BROMOFORM	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
BROMOMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
CARBON TETRACHLORIDE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroethane	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
CHLOROFORM	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
CHLOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorotrifluoroethylene	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
CIS-1,2-DICHLOROETHENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
CIS-1,3-DICHLOROPROPENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
DIBROMOCHLOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
DIBROMOMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
DICHLORODIFLUOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
ETHYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
GASOLINE RANGE ORGANICS (C5-C12)	ug/l	U	50	U	50	U	50	U	50	U	50	U		
HEXACHLOROBUTADIENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
ISOPROPYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
m,p-Xylene	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
METHYL TERT-BUTYL ETHER (MTBE)	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
METHYLENE CHLORIDE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
N-BUTYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
N-PROPYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
O-XYLENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
P-ISOPROPYLTOLUENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
SEC-BUTYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
STYRENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TERT-BUTYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TETRACHLOROETHENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TOLUENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TRANS-1,2-DICHLOROETHENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TRANS-1,3-DICHLOROPROPENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TRICHLOROETHENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TRICHLOROFLUOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
VINYL CHLORIDE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U

Table C-4 5B Trip Blank Samples

Sample Name: EPA Sample Name: Sample Date: Sample Type		TB-011011 6181008 01/10/2011 Trip Blank		TB-011111 6182713 01/11/2011 Trip Blank		TB-011211 6182864 01/12/2011 Trip Blank		TB-011311 6183560 01/13/2011 Trip Blank		TB-011411 6184385 01/14/2011 Trip Blank		TB-011711 6185294 01/17/2011 Trip Blank		TB-01 6185294 01/18/2011 Trip Blank
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration
1,1,1,2-Tetrachloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,1,1-TRICHLOROETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,1,2,2-TETRACHLOROETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10
1,1,2-TRICHLOROETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,1-DICHLOROETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,1-DICHLOROETHENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,1-DICHLOROPROPENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2,3-TRICHLOROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2,3-TRICHLOROPROPANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2,4-TRICHLOROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2,4-TRIMETHYLBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2-Dibromoethane (EDB)	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2-DICHLOROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2-DICHLOROETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2-DICHLOROPROPANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,3,5-TRIMETHYLBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,3-DICHLOROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,3-DICHLOROPROPANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,4-DICHLOROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,4-DIOXANE	ug/l	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
2,2-DICHLOROPROPANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
2-BUTANONE (MEK)	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10
2-Chloro-1,1,1-trifluoroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
2-CHLOROETHYL VINYL ETHER	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10
2-CHLOROTOLUENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
2-HEXANONE	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10
4-CHLOROTOLUENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
4-METHYL-2-PENTANONE (MIBK)	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10
ACETONE	ug/l	20	U	20	U	20	U	20	U	20	U	20	U	20
BENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
BROMOBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
BROMOCHLOROMETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
BROMODICHLOROMETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
BROMOFORM	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
BROMOMETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
CARBON TETRACHLORIDE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
Chlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
Chloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
CHLOROFORM	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
CHLOROMETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
Chlorotrifluoroethylene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
CIS-1,2-DICHLOROETHENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
CIS-1,3-DICHLOROPROPENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
DIBROMOCHLOROMETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
DIBROMOMETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
DICHLORODIFLUOROMETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
ETHYLBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
GASOLINE RANGE ORGANICS (C5-C12)	ug/l			50	U	50	U			50	U	80		50
HEXACHLOROBUTADIENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
ISOPROPYLBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
m,p-Xylene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
METHYL TERT-BUTYL ETHER (MTBE)	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
METHYLENE CHLORIDE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
N-BUTYLBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
N-PROPYLBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
O-XYLENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
P-ISOPROPYLTOLUENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
SEC-BUTYLBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
STYRENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
TERT-BUTYLBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
TETRACHLOROETHENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
TOLUENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
TRANS-1,2-DICHLOROETHENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
TRANS-1,3-DICHLOROPROPENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
TRICHLOROETHENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
TRICHLOROFLUOROMETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
VINYL CHLORIDE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5

Table C-4 5B Trip Blank Samples

Sample Name: 1811 EPA Sample Name: 963 Sample Date: /2011 Sample Type: Blank			TB-011911 6186950 01/19/2011 Trip Blank		TB-012011 6189232 01/20/2011 Trip Blank		TB-012111 6189714 01/21/2011 Trip Blank		TB-012411 6190394 01/24/2011 Trip Blank		TB-012511 6191430 01/25/2011 Trip Blank		TB-012611 6192766 01/26/2011 Trip Blank	
Analyte	Units	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,1-TRICHLOROETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-TETRACHLOROETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1,2-TRICHLOROETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-DICHLOROETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-DICHLOROETHENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-DICHLOROPROPENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,3-TRICHLOROBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,3-TRICHLOROPROPANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4-TRICHLOROBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4-TRIMETHYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dibromoethane (EDB)	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-DICHLOROBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-DICHLOROETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-DICHLOROPROPANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3,5-TRIMETHYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3-DICHLOROBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3-DICHLOROPROPANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,4-DICHLOROBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,4-DIOXANE	ug/l	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
2,2-DICHLOROPROPANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
2-BUTANONE (MEK)	ug/l	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Chloro-1,1,1-trifluoroethane	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
2-CHLOROETHYL VINYL ETHER	ug/l	U	10	U	10	U	10	U	10	U	10	U	10	U
2-CHLOROTOLUENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
2-HEXANONE	ug/l	U	10	U	10	U	10	U	10	U	10	U	10	U
4-CHLOROTOLUENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
4-METHYL-2-PENTANONE (MIBK)	ug/l	U	10	U	10	U	10	U	10	U	10	U	10	U
ACETONE	ug/l	U	20	U	20	U	20	U	20	U	20	U	20	U
BENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
BROMOBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
BROMOCHLOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
BROMODICHLOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
BROMOFORM	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
BROMOMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
CARBON TETRACHLORIDE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroethane	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
CHLOROFORM	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
CHLOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorotrifluoroethylene	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
CIS-1,2-DICHLOROETHENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
CIS-1,3-DICHLOROPROPENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
DIBROMOCHLOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
DIBROMOMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
DICHLORODIFLUOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
ETHYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
GASOLINE RANGE ORGANICS (C5-C12)	ug/l	U	50	U	50	U	50	U	50	U	50	U	50	U
HEXACHLOROBUTADIENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
ISOPROPYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
m,p-Xylene	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
METHYL TERT-BUTYL ETHER (MTBE)	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
METHYLENE CHLORIDE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
N-BUTYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
N-PROPYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
O-XYLENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
P-ISOPROPYLTOLUENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
SEC-BUTYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
STYRENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TERT-BUTYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TETRACHLOROETHENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TOLUENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TRANS-1,2-DICHLOROETHENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TRANS-1,3-DICHLOROPROPENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TRICHLOROETHENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TRICHLOROFLUOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
VINYL CHLORIDE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U

Table C-4 5B Trip Blank Samples

Sample Name: EPA Sample Name: Sample Date: Sample Type		TB-012711 6193673 01/27/2011 Trip Blank		TB-013111 6197576 01/31/2011 Trip Blank		TB-020111 6196812 02/01/2011 Trip Blank		TB-020211 6197645 02/02/2011 Trip Blank		TB-020311 6198519 02/02/2011 Trip Blank		TB-020411 6199409 02/04/2011 Trip Blank		TB-020411 6200000 02/07/2011 Trip Blank
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration
1,1,1,2-Tetrachloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,1,1-TRICHLOROETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,1,2,2-TETRACHLOROETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10
1,1,2-TRICHLOROETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,1-DICHLOROETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,1-DICHLOROETHENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,1-DICHLOROPROPENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2,3-TRICHLOROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2,3-TRICHLOROPROPANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2,4-TRICHLOROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2,4-TRIMETHYLBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2-Dibromoethane (EDB)	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2-DICHLOROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2-DICHLOROETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2-DICHLOROPROPANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,3,5-TRIMETHYLBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,3-DICHLOROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,3-DICHLOROPROPANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,4-DICHLOROBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
1,4-DIOXANE	ug/l	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0
2,2-DICHLOROPROPANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
2-BUTANONE (MEK)	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10
2-Chloro-1,1,1-trifluoroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
2-CHLOROETHYL VINYL ETHER	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10
2-CHLOROTOLUENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
2-HEXANONE	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10
4-CHLOROTOLUENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
4-METHYL-2-PENTANONE (MIBK)	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10
ACETONE	ug/l	20	U	20	U	20	U	20	U	20	U	20	U	20
BENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
BROMOBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
BROMOCHLOROMETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
BROMODICHLOROMETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
BROMOFORM	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
BROMOMETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
CARBON TETRACHLORIDE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
Chlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
Chloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
CHLOROFORM	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
CHLOROMETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
Chlorotrifluoroethylene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
CIS-1,2-DICHLOROETHENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
CIS-1,3-DICHLOROPROPENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
DIBROMOCHLOROMETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
DIBROMOMETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
DICHLORODIFLUOROMETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
ETHYLBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
GASOLINE RANGE ORGANICS (C5-C12)	ug/l	50	UJ	50	UJ					50	UJ			
HEXACHLOROBUTADIENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
ISOPROPYLBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
m,p-Xylene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
METHYL TERT-BUTYL ETHER (MTBE)	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
METHYLENE CHLORIDE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
N-BUTYLBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
N-PROPYLBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
O-XYLENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
P-ISOPROPYLTOLUENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
SEC-BUTYLBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
STYRENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
TERT-BUTYLBENZENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
TETRACHLOROETHENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
TOLUENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
TRANS-1,2-DICHLOROETHENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
TRANS-1,3-DICHLOROPROPENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
TRICHLOROETHENE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
TRICHLOROFLUOROMETHANE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5
VINYL CHLORIDE	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5

Table C-4 5B Trip Blank Samples

Sample Name: 0711 EPA Sample Name: 292 Sample Date: 2/2011 Sample Type: Blank			TB-020811 6201164 02/08/2011 Trip Blank		TB-020911 6202516 02/09/2011 Trip Blank		TB-021011 6203561 02/10/2011 Trip Blank		TB-021411 6205502 02/14/2011 Trip Blank		TB-021511 6206990 02/15/2011 Trip Blank		TB-021611 6208353 02/16/2011 Trip Blank	
Analyte	Units	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,1-TRICHLOROETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-TETRACHLOROETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1,2-TRICHLOROETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-DICHLOROETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-DICHLOROETHENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-DICHLOROPROPENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,3-TRICHLOROBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,3-TRICHLOROPROPANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4-TRICHLOROBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2,4-TRIMETHYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dibromoethane (EDB)	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-DICHLOROBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-DICHLOROETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-DICHLOROPROPANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3,5-TRIMETHYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3-DICHLOROBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,3-DICHLOROPROPANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,4-DICHLOROBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
1,4-DIOXANE	ug/l	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
2,2-DICHLOROPROPANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
2-BUTANONE (MEK)	ug/l	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Chloro-1,1,1-trifluoroethane	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
2-CHLOROETHYL VINYL ETHER	ug/l	U	10	U	10	U	10	U	10	U	10	U	10	U
2-CHLOROTOLUENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
2-HEXANONE	ug/l	U	10	U	10	U	10	U	10	U	10	U	10	U
4-CHLOROTOLUENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
4-METHYL-2-PENTANONE (MIBK)	ug/l	U	10	U	10	U	10	U	10	U	10	U	10	U
ACETONE	ug/l	U	20	U	20	U	20	U	20	U	20	U	20	U
BENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
BROMOBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
BROMOCHLOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
BROMODICHLOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
BROMOFORM	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
BROMOMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
CARBON TETRACHLORIDE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroethane	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
CHLOROFORM	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
CHLOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorotrifluoroethylene	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
CIS-1,2-DICHLOROETHENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
CIS-1,3-DICHLOROPROPENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
DIBROMOCHLOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
DIBROMOMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
DICHLORODIFLUOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
ETHYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
GASOLINE RANGE ORGANICS (C5-C12)	ug/l	U	50	U	50	U	50	U	50	U	50	U	50	U
HEXACHLOROBUTADIENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
ISOPROPYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
m,p-Xylene	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
METHYL TERT-BUTYL ETHER (MTBE)	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
METHYLENE CHLORIDE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
N-BUTYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
N-PROPYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
O-XYLENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
P-ISOPROPYLTOLUENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
SEC-BUTYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
STYRENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TERT-BUTYLBENZENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TETRACHLOROETHENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TOLUENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TRANS-1,2-DICHLOROETHENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TRANS-1,3-DICHLOROPROPENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TRICHLOROETHENE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
TRICHLOROFLUOROMETHANE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U
VINYL CHLORIDE	ug/l	U	5	U	5	U	5	U	5	U	5	U	5	U

Table C-4 5B Trip Blank Samples

Sample Name: EPA Sample Name: Sample Date: Sample Type		TB-021711 6209570 02/17/2011 Trip Blank		TB-030911 6226877 03/09/2011 Trip Blank		TB-031111 6228986 03/11/2011 Trip Blank	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	ug/l	5	U	5	U	5	U
1,1,1-TRICHLOROETHANE	ug/l	5	U	5	U	5	U
1,1,2,2-TETRACHLOROETHANE	ug/l	5	U	5	U	5	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ug/l	10	U	10	U	10	U
1,1,2-TRICHLOROETHANE	ug/l	5	U	5	U	5	U
1,1-DICHLOROETHANE	ug/l	5	U	5	U	5	U
1,1-DICHLOROETHENE	ug/l	5	U	5	U	5	U
1,1-DICHLOROPROPENE	ug/l	5	U	5	U	5	U
1,2,3-TRICHLOROBENZENE	ug/l	5	U	5	U	5	U
1,2,3-TRICHLOROPROPANE	ug/l	5	U	5	U	5	U
1,2,4-TRICHLOROBENZENE	ug/l	5	U	5	U	5	U
1,2,4-TRIMETHYLBENZENE	ug/l	5	U	5	U	5	U
1,2-DIBROMO-3-CHLOROPROPANE	ug/l	5	U	5	U	5	U
1,2-Dibromoethane (EDB)	ug/l	5	U	5	U	5	U
1,2-DICHLOROBENZENE	ug/l	5	U	5	U	5	U
1,2-DICHLOROETHANE	ug/l	5	U	5	U	5	U
1,2-DICHLOROPROPANE	ug/l	5	U	5	U	5	U
1,3,5-TRIMETHYLBENZENE	ug/l	5	U	5	U	5	U
1,3-DICHLOROBENZENE	ug/l	5	U	5	U	5	U
1,3-DICHLOROPROPANE	ug/l	5	U	5	U	5	U
1,4-DICHLOROBENZENE	ug/l	5	U	5	U	5	U
1,4-DIOXANE	ug/l	2.0	U	2.0	U	2.0	U
2,2-DICHLOROPROPANE	ug/l	5	U	5	U	5	U
2-BUTANONE (MEK)	ug/l	10	U	10	U	10	U
2-Chloro-1,1,1-trifluoroethane	ug/l	5	U	5	U	5	U
2-CHLOROETHYL VINYL ETHER	ug/l	10	U	10	U	10	U
2-CHLOROTOLUENE	ug/l	5	U	5	U	5	U
2-HEXANONE	ug/l	10	U	10	U	10	U
4-CHLOROTOLUENE	ug/l	5	U	5	U	5	U
4-METHYL-2-PENTANONE (MIBK)	ug/l	10	U	10	U	10	U
ACETONE	ug/l	20	U	20	UJ	20	U
BENZENE	ug/l	5	U	5	U	5	U
BROMOBENZENE	ug/l	5	U	5	U	5	U
BROMOCHLOROMETHANE	ug/l	5	U	5	U	5	U
BROMODICHLOROMETHANE	ug/l	5	U	5	U	5	U
BROMOFORM	ug/l	5	U	5	U	5	U
BROMOMETHANE	ug/l	5	U	5	U	5	U
CARBON TETRACHLORIDE	ug/l	5	U	5	U	5	U
Chlorobenzene	ug/l	5	U	5	U	5	U
Chloroethane	ug/l	5	U	5	U	5	U
CHLOROFORM	ug/l	5	U	5	U	5	U
CHLOROMETHANE	ug/l	5	U	5	U	5	U
Chlorotrifluoroethylene	ug/l	5	U	5	UJ	5	U
CIS-1,2-DICHLOROETHENE	ug/l	5	U	5	U	5	U
CIS-1,3-DICHLOROPROPENE	ug/l	5	U	5	U	5	U
DIBROMOCHLOROMETHANE	ug/l	5	U	5	U	5	U
DIBROMOMETHANE	ug/l	5	U	5	U	5	U
DICHLORODIFLUOROMETHANE	ug/l	5	U	5	UJ	5	U
ETHYLBENZENE	ug/l	5	U	5	U	5	U
GASOLINE RANGE ORGANICS (C5-C12)	ug/l	50	U	50	U	50	U
HEXACHLOROBUTADIENE	ug/l	5	U	5	U	5	U
ISOPROPYLBENZENE	ug/l	5	U	5	U	5	U
m,p-Xylene	ug/l	5	U	5	U	5	U
METHYL TERT-BUTYL ETHER (MTBE)	ug/l	5	U	5	U	5	U
METHYLENE CHLORIDE	ug/l	5	U	5	U	5	U
N-BUTYLBENZENE	ug/l	5	U	5	U	5	U
N-PROPYLBENZENE	ug/l	5	U	5	U	5	U
O-XYLENE	ug/l	5	U	5	U	5	U
P-ISOPROPYLTOLUENE	ug/l	5	U	5	U	5	U
SEC-BUTYLBENZENE	ug/l	5	U	5	U	5	U
STYRENE	ug/l	5	U	5	U	5	U
TERT-BUTYLBENZENE	ug/l	5	U	5	U	5	U
TETRACHLOROETHENE	ug/l	5	U	5	U	5	U
TOLUENE	ug/l	5	U	5	U	5	U
TRANS-1,2-DICHLOROETHENE	ug/l	5	U	5	U	5	U
TRANS-1,3-DICHLOROPROPENE	ug/l	5	U	5	U	5	U
TRICHLOROETHENE	ug/l	5	U	5	U	5	U
TRICHLOROFLUOROMETHANE	ug/l	5	U	5	U	5	U
VINYL CHLORIDE	ug/l	5	U	5	U	5	U

Table C-5 5B Field Duplicates

				Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-012-SA5B DUPO2-SA5B-QC-120910 0 0.5 FD	SL-012-SA5B SL-012-SA5B-SS-0.0-0.5 0 0.5 N	RPD	SL-017-SA5B DUP01-SA5B-QC-120810 0 0.5 FD	SL-017-SA5B SL-017-SA5B-SS-0.0-0.5 0 0.5 N	RPD		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit								
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	8560		9350	-8.82	13300	13300	0.00	
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.211	UJ	0.216	UJ	0.218	UJ	--	
Inorganic	Arsenic	7440-38-2	6020	mg/kg	3.64		5.09	-33.22	6.39	5.99	6.46	
Inorganic	Barium	7440-39-3	6020	mg/kg	67.5	J	73.3	J	115	109	5.36	
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.254		0.302	-17.27	0.645	0.662	-2.60	
Inorganic	Boron	7440-42-8	6010B	mg/kg	3.74	J	2.93	J	3.23	4.05	-22.53	
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.112	J	0.149	J	0.176	0.117	40.27	
Inorganic	Calcium	7440-70-2	6010B	mg/kg	4480		4390	2.03	4470	4940	-9.99	
Inorganic	Chromium	7440-47-3	6020	mg/kg	23.4	J	30.6	J	32.2	24.2	28.37	
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	1.1	U	1.1	U	1.1	1.1	--	
Inorganic	Cobalt	7440-48-4	6020	mg/kg	4.31	J	5.03	J	6.85	6.51	5.09	
Inorganic	Copper	7440-50-8	6020	mg/kg	7.39		7.96	-7.43	11.6	11.0	5.31	
Inorganic	Cyanide	57-12-5	9012B	mg/kg						0.53	U	--
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	1.4		1.5	-6.90	1.8	1.8	0.00	
Inorganic	Iron	7439-89-6	6010B	mg/kg	13200		12300	7.06	17600	18500	-4.99	
Inorganic	Lead	7439-92-1	6020	mg/kg	3.31	J	3.82	J	6.54	7.20	-9.61	
Inorganic	Lithium	7439-93-2	6010B	mg/kg	12.7		8.5	39.62	16.7	17.8	-6.38	
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	3030		2750	9.69	3900	4100	-5.00	
Inorganic	Manganese	7439-96-5	6010B	mg/kg	160		154	3.82	214	234	-8.93	
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.106	U	0.109	U	0.0068	0.0072	-5.71	
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	1.43	J	1.74	J	1.81	1.24	37.38	
Inorganic	Nickel	7440-02-0	6020	mg/kg	10.8	J	14.2	J	17.4	13.2	27.45	
Inorganic	Nitrate	14797-55-8	300.0	mg/kg						1.9	--	
Inorganic	Percent Moisture	MOIST	160.3M	%	6.9		8.5	-20.78	8.3	8.5	-2.38	
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	32.2	U	32.8	U	32.7	32.8	U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg	5.4	U	5.5	U	--	5.5	U	--
Inorganic	pH		9045M	pH unit	9.10		8.27	9.56	8.50	8.46	0.47	
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	508		502	1.19	448	445	0.67	
Inorganic	Potassium	7440-09-7	6010B	mg/kg	2090		1550	29.67	2430	2870	-16.60	
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.200	J	0.403	J	0.199	0.190	4.63	
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0219	J	0.0319	J	0.0287	0.0385	-29.17	
Inorganic	Sodium	7440-23-5	6010B	mg/kg	201		191	5.10	111	105	5.56	
Inorganic	Strontium	7440-24-6	6010B	mg/kg	36.9	J	45.5	J	20.87	29.5	6.29	
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.131	J	0.173	J	0.188	0.284	-40.68	
Inorganic	Tin	7440-31-5	6010B	mg/kg	10.7	U	10.9	U	--	10.8	U	--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	759		737	2.94	1010	1040	-2.93	
Inorganic	Vanadium	7440-62-2	6020	mg/kg	31.0	J	36.5	J	-16.30	42.4	1.90	
Inorganic	Zinc	7440-66-6	6020	mg/kg	44.2	J	38.7	J	13.27	90.8	4.50	
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	2.45	J	4.45	J	-57.97	2.74	4.86	
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg						160	U	--
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg						160	U	--
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg						330	U	--
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg						160	U	--
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg						330	U	--
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg						160	U	--
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg						160	U	--
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg						160	U	--
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg						550	U	--
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg						160	U	--
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg						160	U	--
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg						160	U	--
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg						14	U	--
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg						550	U	--
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg						14	U	--
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg						1600	U	--
Misc. Organics	HMX	2691-41-0	8330A	ug/kg						410	U	--
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg						160	U	--
Misc. Organics	Methanol	67-56-1	8015B	ug/kg						550	U	--
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg						3.8	U	--
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg						160	U	--
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg						3300	U	--
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg						3.8	U	--
Misc. Organics	PETN	78-11-5	8330A	ug/kg						3300	U	--
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg						14	U	--
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg						3.8	U	--
Misc. Organics	RDX	121-82-4	8330A	ug/kg						160	U	--
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg						160	U	--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	26.8		34.6	-25.41	13.9	13.7	1.45	
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	4.63	J	5.36	J	-14.61	5.45	U	--
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	0.288	J	0.372	J	-25.45	0.149	J	200.00
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	0.422	J	0.537	J	-23.98	0.0716	J	-55.79
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	0.214	J	0.227	J	-5.90	0.160	J	200.00
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	1.12	J	1.27	J	-12.55	0.473	J	-17.90
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	0.308	J	0.307	J	0.33	0.164	J	200.00
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	1.00	J	1.23	J	-20.63	0.400	J	200.00
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	0.102	J	0.113	J	-10.23	0.130	J	200.00
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	0.288	J	0.295	J	-2.40	0.0698	J	200.00
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	0.0991	J	0.0808	J	20.34	0.102	J	200.00
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	0.380	J	0.445	J	-15.76	0.196	J	200.00
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	0.168	J	0.171	J	-1.77	0.138	J	200.00
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	0.0550	J	0.0450	J	20.00	0.0179	J	200.00
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	0.0287	J	0.0340	J	-16.91	0.0631	J	64.02
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.8	U	1.9	U	--	1.9	U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.8	U	1.9	U	--	1.9	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.8	U	1.9	U	--	1.9	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.8	U	1.9	U	--	1.9	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.8	U	1.9	U	--	1.9	U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	1.8	U	1.9	U	--	1.1	J	32.80
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	0.65	J	1.9	UJ	200.00	0.80	J	-10.65
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.8	U	1.9	U	--	1.9	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.8	U	1.9	U	--	1.9	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.5	UJ	3.6	UJ	--	3.6	UJ	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.5	UJ	3.6	UJ	--	3.6	UJ	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	4.3	J	3.6	UJ	200.00	1.7	J	200.00
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	298		494	-49.49	204	176	J	14.74
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	9.45	J	12.4	-27.00	3.90	3.90	J	0.00
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg	9.7	U	9.8	U	--	9.8	U	--
Pesticides	2,4 DB	94-82-6	8151A	ug/kg	1.8	J	1.9	UJ	200.00	2.8	U	200.00
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg	0.18	U	0.19	U	--	0.19	U	--
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg	0.18	U	0.19	U	--	0.19	U	--
Pesticides	2,4-D	94-75-7	8151A	ug/kg	3.9	U	3.9	U	--	3.9	U	--
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg	0.37	U	0.37	U	--	0.37	U	--
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg	0.37	U	0.37	U	--	0.37	U	--
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg	0.37	U	0.37	U	--	0.37	U	--
Pesticides	Aldrin	309-00-2	8081A	ug/kg	0.18	U	0.18	U	--	0.18	U	--
Pesticides	Alpha-BHC	319-84-6	8081A	ug/kg	0.18	U	0.18	U	--	0.18	U	--
Pesticides	Beta-BHC	319-85-7	8081A	ug/kg	0.084	J	0.18	UJ	200.00	0.18	U	--
Pesticides	Chlordane	57-74-9	8081A	ug/kg	3.7	U	3.7	U	--	3.7	U	--
Pesticides	Delta-BHC	319-86-8	8081A	ug/kg	0.18	U	0.18	U	--	0.18	U	--
Pesticides	Dicamba	1918-00-9	8151A	ug/kg	1.3	U	1.3	U	--	1.3	U	--
Pesticides	Dichlorprop	120-36-5	8151A	ug/kg	1.8	U	1.9	U	--	1.9	U	--
Pesticides	Dieldrin	60-57-1	8081A	ug/kg	0.37	U	0.37	U	--	0.37	U	--
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	ug/kg	2.6	U	2.6	U	--	2.6	R	--
Pesticides	Endosulfan I	959-98-8	8081A	ug/kg	0.1							

Table C-5 5B Field Duplicates

			Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-012-SA5B DUPO2-SA5B-QC-120910 0 0.5 FD		SL-012-SA5B SL-012-SA5B-SS-0.0-0.5 12/09/2010 0 0.5 N		RPD	SL-017-SA5B DUP01-SA5B-QC-120810 12/08/2010 0 0.5 FD		SL-017-SA5B SL-017-SA5B-SS-0.0-0.5 12/08/2010 0 0.5 N		RPD
Semivolatiles	2-Nitroaniline	88-74-4	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	3,3'-Dichlorobenzidine	91-94-1	8270C ug/kg	360	U	360	U	--	360	U	360	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C ug/kg	540	U	550	U	--	550	U	550	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C ug/kg	540	U	550	U	--	550	U	550	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
Semivolatiles	Aniline	62-53-3	8270C ug/kg	540	U	550	U	--	550	U	550	U	--
Semivolatiles	Anthracene	120-12-7	8270C SIM ug/kg	0.42	J	1.8	UJ	200.00	1.8	U	1.8	U	--
Semivolatiles	Benzidine	92-87-5	8270C ug/kg	3600	U	3600	U	--	3600	U	3600	U	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C ug/kg										
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM ug/kq	1.9	J	1.8	UJ	200.00	1.4	J	2.2		-44.44
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C ug/kg										
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM ug/kg	2.1	J	1.8	UJ	200.00	2.1		1.8		15.38
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C ug/kg										
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM ug/kg	3.6	J	1.8	UJ	200.00	3.2		3.2		0.00
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C ug/kg										
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM ug/kg	1.3	J	1.8	UJ	200.00	1.1	J	0.75	J	37.84
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C ug/kg										
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM ug/kg	1.9	J	1.8	UJ	200.00	1.7	J	1.4	J	19.35
Semivolatiles	Benzoic Acid	65-85-0	8270C ug/kg	540	U	550	U	--	550	U	550	U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C ug/kg	540	U	550	U	--	550	U	550	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C ug/kg	180	U	180	U	--	180	U	180	UJ	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C ug/kg								20	J	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM ug/kg	19	UJ	88	J	200.00	20	U			--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C ug/kg										
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM ug/kg	19	U	20	U	--	20	U	20	U	--
Semivolatiles	Carbazole	86-74-8	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Chrysene	218-01-9	8270C ug/kg										
Semivolatiles	Chrysene	218-01-9	8270C SIM ug/kg	2.3	J	1.8	UJ	200.00	2.5		2.0		22.22
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C ug/kg										
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM ug/kg	19	U	20	U	--	20	U	20	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C ug/kg										
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM ug/kg	19	U	20	U	--	20	U	20	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C ug/kg										
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM ug/kg	19	UJ	7.0	J	200.00	20	U	20	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C ug/kg										
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM ug/kg	19	U	20	U	--	20	U	20	U	--
Semivolatiles	Fluoranthene	206-44-0	8270C ug/kg										
Semivolatiles	Fluoranthene	206-44-0	8270C SIM ug/kg	2.8	J	1.8	UJ	200.00	1.7	J	4.1		-82.76
Semivolatiles	Fluorene	86-73-7	8270C SIM ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C ug/kg	540	U	550	U	--	550	U	550	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C ug/kg										
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM ug/kg	0.82	J	1.8	UJ	200.00	1.8	U	1.8	U	--
Semivolatiles	Isophorone	78-59-1	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Naphthalene	91-20-3	8270C SIM ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
Semivolatiles	Nitrobenzene	98-95-3	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C ng/kg								21.8	J	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM ug/kg	1.8	U	1.8	UJ	--	1.8	U	1.8	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C ug/kg	540	U	550	U	--	550	U	550	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C ug/kg										
Semivolatiles	Phenanthrene	85-01-8	8270C SIM ug/kg	0.81	J	1.8	UJ	200.00	0.81	J	1.1	J	-30.37
Semivolatiles	Phenol	108-95-2	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Pyrene	129-00-0	8270C ug/kg										
Semivolatiles	Pyrene	129-00-0	8270C SIM ug/kg	2.4	J	1.0	J	82.35	1.7	J	3.2		-61.22
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B ug/kg								4.0	U	--
Volatiles	1,1,1,1-Trichloroethane	71-55-6	8260B ug/kg								4.0	U	--
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B ug/kg								4.0	U	--
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B ug/kg								4.0	U	--
Volatiles	1,1-Dichloroethane	75-34-3	8260B ug/kg								4.0	U	--
Volatiles	1,1-Dichloroethene	75-35-4	8260B ug/kg								4.0	U	--
Volatiles	1,1-Dichloropropene	563-58-6	8260B ug/kg								4.0	U	--
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B ug/kg								4.0	U	--
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B ug/kg								4.0	U	--
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B ug/kg								4.0	U	--
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B ug/kg								4.0	U	--
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B ug/kg								4.0	U	--
Volatiles	1,2-Dibromoethane	106-93-4	8260B ug/kg								4.0	U	--
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B ug/kg								4.0	U	--
Volatiles	1,2-Dichloroethane	107-06-2	8260B ug/kg								4.0	U	--
Volatiles	1,2-Dichloropropane	78-87-5	8260B ug/kg								4.0	U	--
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B ug/kg								4.0	U	--
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B ug/kg								4.0	U	--
Volatiles	1,3-Dichloropropane	142-28-9	8260B ug/kg								4.0	U	--
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B ug/kg								4.0	U	--
Volatiles	1,4-Dioxane	123-91-1	8260B SIM ug/kg								14	U	--
Volatiles	2,2-Dichloropropane	594-20-7	8260B ug/kg								4.0	U	--
Volatiles	2-Butanone	78-93-3	8260B ug/kg								7.9	U	--
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B ug/kg								4.0	U	--
Volatiles	2-Chlorotoluene	95-49-8	8260B ug/kg								4.0	U	--
Volatiles	2-Hexanone	591-78-6	8260B ug/kg								7.9	U	--
Volatiles	4-Chlorotoluene	106-43-4	8260B ug/kg								4.0	U	--
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B ug/kg								7.9	U	--
Volatiles	Acetone	67-64-1	8260B ug/kg								7.9	U	--
Volatiles	Benzene	71-43-2	8260B ug/kg								4.0	U	--
Volatiles	Bromobenzene	108-86-1	8260B ug/kg								4.0	U	--
Volatiles	Bromochloromethane	74-97-5	8260B ug/kg								4.0	U	--
Volatiles	Bromodichloromethane	75-27-4	8260B ug/kg								4.0	U	--
Volatiles	Bromoform	75-25-2	8260B ug/kg								4.0	U	--
Volatiles	Bromomethane	74-83-9	8260B ug/kg								4.0	U	--
Volatiles	Carbon tetrachloride	56-23-5	8260B ug/kg								4.0	U	--
Volatiles	Chlorobenzene	108-90-7	8260B ug/kg								4.0	U	--
Volatiles	Chloroethane	75-00-3	8260B ug/kg								4.0	U	--
Volatiles	Chloroform	67-66-3	8260B ug/kg								4.0	U	--
Volatiles	Chloromethane	74-87-3	8260B ug/kg								4.0	U	--
Volatiles	Chlorotrifluoroethene	79-38-9	8260B ug/kg								4.9	U	--
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B ug/kg								4.0	U	--
Volatiles	cis-1,3-Dichlorop												

Table C-5 5B Field Duplicates

				Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-044-SA5B DUP14-SA5B-QC-122010 12/20/2010 4 5 FD	SL-044-SA5B SL-044-SA5B-SB-4.0-5.0 12/20/2010 4 5 N	RPD	SL-046-SA5B DUP15-SA5B-QC-122110 12/21/2010 4 5 FD	SL-046-SA5B SL-046-SA5B-SB-4.0-5.0 12/21/2010 4 5 N	RPD
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit						
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	18600	20300	-8.74	12400	13700	-9.96
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.217 UJ	0.222 UJ	--	0.0697 J	0.0861 J	-21.05
Inorganic	Arsenic	7440-38-2	6020	mg/kg	8.45 J	5.26 J	46.54	4.37 J	3.99 J	9.09
Inorganic	Barium	7440-39-3	6020	mg/kg	128 J	128 J	0.00	99.5	79.8	21.97
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.713 J	0.851 J	-17.65	0.487	0.510	-4.61
Inorganic	Boron	7440-42-8	6010B	mg/kg	6.32 J	5.55 UJ	200.00	4.57 J	3.08 J	38.95
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.208 J	0.0646 J	105.21	0.100 J	0.0841 J	17.27
Inorganic	Calcium	7440-70-2	6010B	mg/kg	2450	1930	23.74	4610 J	3860 J	17.71
Inorganic	Chromium	7440-47-3	6020	mg/kg	26.3 J	20.1 J	26.72	19.2 J	15.1 J	23.91
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	1.1 J	0.42 J	89.47	1.1 UJ	0.29 J	200.00
Inorganic	Cobalt	7440-48-4	6020	mg/kg	8.10 J	6.82 J	17.16	6.06 J	4.73 J	24.65
Inorganic	Copper	7440-50-8	6020	mg/kg	10.1 J	6.61 J	41.77	8.14 J	7.35 J	10.20
Inorganic	Cyanide	57-12-5	9012B	mg/kg	0.53 U	0.56 U	--	--	--	--
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	2.8 J	4.4 J	-44.44	2.4	3.1 J	-25.45
Inorganic	Iron	7439-89-6	6010B	mg/kg	19200	19100	0.52	21000	19900	5.38
Inorganic	Lead	7439-92-1	6020	mg/kg	9.16 J	6.38 J	35.78	4.54 J	4.86 J	-6.81
Inorganic	Lithium	7439-93-2	6010B	mg/kg	22.5	20.1	11.27	28.8 J	27.1 J	6.08
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	4110	3740	9.43	5690	5110	10.74
Inorganic	Manganese	7439-96-5	6010B	mg/kg	247	267	-7.78	259	260	-0.39
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.109 U	0.111 U	--	0.107 UJ	0.0067 J	200.00
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	1.11 J	0.735 J	40.65	0.336 J	0.390 J	-14.88
Inorganic	Nickel	7440-02-0	6020	mg/kg	14.9 J	12.3 J	19.12	11.7	9.75	18.18
Inorganic	Nitrate	14797-55-8	300.0	mg/kg	7.4 J	1.6 J	128.89	--	--	--
Inorganic	Percent Moisture	MOIST	160.3M	%	10.6	11.6	-9.01	8.7	8.1	7.14
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	33.6 U	33.9 U	--	32.9 U	32.6 U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg	--	--	--	--	--	--
Inorganic	pH	9045M	pH unit	7.88	8.54	-8.04	8.80	8.82	8.82	-0.23
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	293 J	128 J	78.38	429	393	8.76
Inorganic	Potassium	7440-09-7	6010B	mg/kg	2480	1490	49.87	3430	3360	2.06
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.153 J	0.0786 J	64.25	0.136 J	0.173 J	-23.95
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0516 J	0.0622 J	-18.63	0.0210 J	0.0186 J	12.12
Inorganic	Sodium	7440-23-5	6010B	mg/kg	102 J	109 J	-6.64	124	121	2.45
Inorganic	Strontium	7440-24-6	6010B	mg/kg	17.3	20.8	-18.37	12.3	13.9	-12.21
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.409 J	0.300 J	30.75	0.341	0.296	14.13
Inorganic	Tin	7440-31-5	6010B	mg/kg	11.0 U	11.1 U	--	10.5 U	10.5 U	--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1110	1160	-4.41	1240	1250	-0.80
Inorganic	Vanadium	7440-62-2	6020	mg/kg	52.4 J	42.0 J	22.03	40.6	45.6	-11.60
Inorganic	Zinc	7440-66-6	6020	mg/kg	84.4	52.1	47.33	67.6	54.2	22.00
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	1.50 J	2.04 J	-30.51	5.27 UJ	1.15 J	200.00
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg	170 U	170 U	--	--	--	--
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg	170 U	170 U	--	--	--	--
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg	340 U	340 U	--	--	--	--
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg	170 U	170 U	--	--	--	--
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg	340 U	340 U	--	--	--	--
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg	170 U	170 U	--	--	--	--
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg	170 U	170 U	--	--	--	--
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg	170 U	170 U	--	--	--	--
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg	560 U	570 U	--	--	--	--
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg	170 U	170 U	--	--	--	--
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg	170 U	170 U	--	--	--	--
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg	170 U	170 U	--	--	--	--
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	14 U	14 U	--	--	--	--
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg	560 U	570 U	--	--	--	--
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	14 U	14 U	--	--	--	--
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg	1700 UJ	9800 J	200.00	--	--	--
Misc. Organics	HMX	2691-41-0	8330A	ug/kg	420 U	420 U	--	--	--	--
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg	170 U	170 U	--	--	--	--
Misc. Organics	Methanol	67-56-1	8015B	ug/kg	560 UJ	310 J	200.00	--	--	--
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg	3.9 U	4.0 U	--	--	--	--
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg	170 U	170 U	--	--	--	--
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg	3400 U	3400 U	--	--	--	--
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg	3.9 U	4.0 U	--	--	--	--
Misc. Organics	PETN	78-11-5	8330A	ug/kg	3400 U	3400 U	--	--	--	--
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	14 U	14 U	--	--	--	--
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg	3.9 U	4.0 U	--	--	--	--
Misc. Organics	RDX	121-82-4	8330A	ug/kg	170 U	170 U	--	--	--	--
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg	170 U	170 U	--	--	--	--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	6.15 J	5.66 UJ	200.00	1.53 J	12.5 J	-156.38
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	1.13 J	5.66 UJ	200.00	5.48 UJ	0.896 J	200.00
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	5.59 U	5.66 U	--	5.48 U	5.44 U	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	0.0578 J	0.0480 J	18.53	5.48 UJ	5.44 UJ	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	5.59 UJ	5.66 UJ	--	5.48 U	5.44 U	--
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	0.195 J	0.0344 J	140.02	0.112 J	0.347 J	-102.40
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	5.59 UJ	5.66 UJ	--	5.48 U	5.44 U	--
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	5.59 UJ	5.66 UJ	--	5.48 UJ	0.184 J	200.00
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	5.59 UJ	5.66 UJ	--	5.48 UJ	5.44 UJ	--
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	5.59 UJ	5.66 UJ	--	5.48 U	5.44 U	--
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	0.359 J	5.66 UJ	200.00	5.48 U	5.44 U	--
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	5.59 UJ	5.66 UJ	--	5.48 U	5.44 U	--
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	5.59 UJ	5.66 UJ	--	5.48 UJ	5.44 UJ	--
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	0.0269 J	0.0300 J	-10.90	1.10 U	1.09 U	--
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	0.592 J	1.13 UJ	200.00	1.10 U	1.09 U	--
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.9 U	1.9 U	--	1.9 U	1.8 U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.9 U	1.9 U	--	1.9 U	1.8 U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.9 U	1.9 U	--	1.9 U	1.8 U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.9 U	1.9 U	--	1.9 U	1.8 U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.9 U	1.9 U	--	1.9 U	1.8 U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	4.1 J	1.9 UJ	200.00	4.9 J	0.71 J	149.38
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	0.77 J	1.9 UJ	200.00	0.73 J	1.8 UJ	200.00
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.9 U	1.9 U	--	1.9 U	1.8 U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.9 U	1.9 U	--	1.9 U	1.8 U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.7 UJ	3.7 UJ	--	3.6 U	3.6 U	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.7 UJ	3.7 UJ	--	3.6 UJ	3.6 UJ	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	3.7 UJ	3.7 UJ	--	3.6 U	3.6 U	--
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	48.3 J	11.3 UJ	200.00	17.6 J	87.9 J	-133.27
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	1.79 J	11.3 UJ	200.00	11.0 UJ	2.61 J	200.00
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg	--	--	--	--	--	--
Pesticides	2,4 DB	94-82-6	8151A	ug/kg	--	--	--	--	--	--
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg	--	--	--	--	--	--
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg	--	--	--	--	--	--
Pesticides	2,4-D	94-75-7	8151A	ug/kg	--	--	--	--	--	--
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg	--	--	--	--	--	--
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg	--	--	--	--	--	--
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg	--	--	--	--	--	--
Pesticides	Aldrin	309-00-2	8081A	ug/kg	--	--	--	--	--	--
Pesticides	Alpha-BHC	319-84-6	8081A	ug/kg	--	--	--	--	--	--
Pesticides	Beta-BHC	319-85-7	8081A	ug/kg	--	--	--	--	--	--
Pesticides	Chlordane	57-74-9	8081A	ug/kg	--	--	--	--	--	--
Pesticides	Delta-BHC	319-86-8	8081A	ug/kg	--	--	--	--	--	--
Pesticides	Dicamba	1918-00-9	8151A	ug/kg	--	--	--	--	--	--
Pesticides	Dichlorprop	120-36-5	8151A	ug/kg	--	--	--	--	--	--
Pesticides	Dieldrin	60-57-1	8081A	ug/kg	--	--	--	--	--	--
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	ug/kg	--	--	--	--	--	--
Pesticides	Endosulfan I	959-98-8	8081A	ug/kg	--	--	--	--	--	--
Pesticides	Endosulfan II	33213-65-9	8081A	ug/kg	--	--	--	--	--	--
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	ug/kg	--	--	--	--	--	--
Pesticides	Endrin	72-20-8	8081A	ug/kg	--	--	--	--	--	--
Pesticides	Endrin Aldehyde	7421-93-4	8081A	ug/kg	--	--	--	--	--	--
Pesticides	Endrin Ketone	53494-70-5	8081A	ug/kg	--	--	--	--	--	--
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	ug/kg	--	--	--	--	--	--
Pesticides	Heptachlor	76-44-8	8081A</							

Table C-5 5B Field Duplicates

			Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-044-SA5B DUP14-SA5B-QC-122010 4 12/20/2010 5 FD	SL-044-SA5B SL-044-SA5B-SB-4.0-5.0 12/20/2010 4 5 N	RPD	SL-046-SA5B DUP15-SA5B-QC-122110 12/21/2010 4 5 FD	SL-046-SA5B SL-046-SA5B-SB-4.0-5.0 12/21/2010 4 5 N	RPD		
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	3,3'-Dichlorobenzidine	91-94-1	8270C	ug/kg	370 UJ	--	370	U	360	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	560 U	--	550	U	540	UJ	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	190 U	--	180	U	180	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	560 U	--	550	U	540	UJ	--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	1.9 U	--	1.8	U	1.8	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	1.9 U	--	1.8	U	1.8	U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	560 U	--	550	U	540	U	--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	1.9 U	--	1.8	U	1.8	U	--
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3700 U	--	3700	U	3600	UJ	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg							
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kq	1.9 U	--	1.5	J	1.8	UJ	200.00
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg							
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	1.9 U	--	1.4	J	1.8	UJ	200.00
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg							
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	1.9 U	--	2.2	J	1.8	UJ	200.00
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg							
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	1.9 U	--	1.2	J	1.8	UJ	200.00
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg							
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	1.9 U	--	0.96	J	1.8	UJ	200.00
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	560 U	--	550	U	540	U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	560 U	--	550	U	540	UJ	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg	34 J	--	24	J	29	J	-18.87
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg		20 U	--				
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg							
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg	20 U	--	20	U	20	U	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg							
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg	1.9 U	--	1.2	J	1.8	UJ	200.00
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg							
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg	20 U	--	20	U	20	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg							
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg	20 U	--	20	U	20	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg							
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	20 U	--	20	U	20	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg							
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg	20 U	--	20	U	20	U	--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg							
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg	1.9 U	--	1.8	UJ	1.8	UJ	--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	1.9 U	--	1.8	U	1.8	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	560 U	--	550	U	540	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg							
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	1.9 U	--	0.91	J	1.8	UJ	200.00
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	1.9 U	--	1.4	J	2.0		-35.29
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg	186 U	--					
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	1.9 U	--	1.8	U	1.8	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	560 U	--	550	U	540	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg							
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg	1.9 U	--	1.8	U	1.8	U	--
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	190 U	--	180	U	180	UJ	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg							
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg	1.9 U	--	1.8	U	1.8	U	--
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,1,1,2-Trichloroethane	71-55-6	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg	14 U	--	15	U	15	U	--
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	2-Butanone	78-93-3	8260B	ug/kg	6.8 UJ	200.00	9.2	U	8.7	U	--
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg	6.8 U	--	9.2	UJ	8.7	UJ	--
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg	6.8 U	--	9.2	U	8.7	U	--
Volatiles	Acetone	67-64-1	8260B	ug/kg	6.6 J	-129.79	17		21		-21.05
Volatiles	Benzene	71-43-2	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	Bromoform	75-25-2	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	Bromomethane	74-83-9	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	Chloroethane	75-00-3	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	Chloroform	67-66-3	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	Chloromethane	74-87-3	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	ug/kg	4.2 U	--	5.7	UJ	5.5	UJ	--
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	Dibromochloromethane	124-48-1	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	Dibromomethane	74-95-3	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	ug/kg	3.4 U	--	4.6	U	4.4	U	--
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	mg/kg	1.3 U	--					
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	mg/kg	3.3 J	58.82					
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	mg/kg	9.1 J	77.86					
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	mg/kg	1.3 U	--					
Volatiles	Ethylbenzene	100-41-4	8260B								

Table C-5 5B Field Duplicates

				Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-066-SA5B DUP16-SA5B-QC-010611 01/06/2011 3 4 FD		SL-066-SA5B SL-066-SA5B-SB-3.0-4.0 01/06/2011 3 4 N		RPD	SL-071-SA5B DUP04-SA5B-QC-121310 12/13/2010 0 0.5 FD		SL-071-SA5B SL-071-SA5B-SS-0.0-0.5 12/13/2010 0 0.5 N		RPD
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit										
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	15600	J	15700	J	-0.64	14200		14400		-1.40
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.152	J	0.163	J	-6.98	0.136	J	0.102	J	28.57
Inorganic	Arsenic	7440-38-2	6020	mg/kg	6.93	J	5.22	J	28.15	7.83	J	6.17	J	23.71
Inorganic	Barium	7440-39-3	6020	mg/kg	110	J	92.4	J	17.39	135	J	120	J	11.76
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.688	J	0.546	J	23.01	0.771	J	0.693	J	10.66
Inorganic	Boron	7440-42-8	6010B	mg/kg	2.09	J	2.91	J	-32.80	5.32		4.15	J	24.71
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.0419	J	0.114	J	-92.50	0.382	J	0.210	J	58.11
Inorganic	Calcium	7440-70-2	6010B	mg/kg	2640		2740		-3.72	3040		2980		1.99
Inorganic	Chromium	7440-47-3	6020	mg/kg	21.1	J	27.2	J	-25.26	28.8	J	25.5	J	12.15
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.52	J	1.1	UJ	200.00	0.76	J	1.1	UJ	200.00
Inorganic	Cobalt	7440-48-4	6020	mg/kg	5.57		5.71		-2.48	9.00	J	7.36	J	20.05
Inorganic	Copper	7440-50-8	6020	mg/kg	7.20	J	9.16	J	-23.96	15.1	J	11.9	J	23.70
Inorganic	Cyanide	57-12-5	9012B	mg/kg										
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	1.3	J	1.5	J	-14.29	4.3		3.4	J	23.38
Inorganic	Iron	7439-89-6	6010B	mg/kg	21100		21800		-3.26	20900		20700		0.96
Inorganic	Lead	7439-92-1	6020	mg/kg	6.13	J	5.26	J	15.28	11.3	J	9.18	J	20.70
Inorganic	Lithium	7439-93-2	6010B	mg/kg	19.0		23.6		-21.60	23.4		23.9		-2.11
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	4480		4750		-5.85	4460		4490		-0.67
Inorganic	Manganese	7439-96-5	6010B	mg/kg	182	J	319	J	-54.69	248		248		0.00
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.105	U	0.105	U	--	0.227		0.334		-38.15
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.429		0.467		-8.48	0.750	J	0.620	J	18.98
Inorganic	Nickel	7440-02-0	6020	mg/kg	9.82		11.3		-14.02	17.1	J	14.8	J	14.42
Inorganic	Nitrate	14797-55-8	300.0	mg/kg										
Inorganic	Percent Moisture	MOIST	160.3M	%	7.4		9.2		-21.69	5.9		6.3		-6.56
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	32.4	U	33.0	U	--	31.9	U	32.0	U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg								5.0	U	
Inorganic	pH		9045M	pH unit	6.29		6.14		2.41	7.34		7.67		-4.40
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	420		436		-3.74	394		377		4.41
Inorganic	Potassium	7440-09-7	6010B	mg/kg	2500		2890		-14.47	2580		2680		-3.80
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.0868	J	0.124	J	-35.29	0.152	J	0.0935	J	47.66
Inorganic	Silver	7440-22-4	6020	mg/kg	0.107	UJ	0.0202	J	200.00	1.22	J	0.241	J	134.02
Inorganic	Sodium	7440-23-5	6010B	mg/kg	106	J	323	J	-101.17	102	J	109		-6.64
Inorganic	Strontium	7440-24-6	6010B	mg/kg	17.9	J	17.3	J	3.41	17.2		16.7		2.95
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.382	J	0.256	J	39.50	0.324		0.356		-9.41
Inorganic	Tin	7440-31-5	6010B	mg/kg	10.5	U	10.9	U	--	10.6	U	10.5	U	--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1200		1220		-1.65	1150		1130		1.75
Inorganic	Vanadium	7440-62-2	6020	mg/kg	40.6	J	38.1	J	6.35	50.3		44.9		11.34
Inorganic	Zinc	7440-66-6	6020	mg/kg	63.3	J	62.2	J	1.75	128		98.5		26.05
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	1.03	J	2.15	J	-70.44	1.10	J	1.01	J	8.53
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg										
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg										
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg										
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg										
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg										
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg										
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg										
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg										
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg										
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg										
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg										
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg										
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg										
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg										
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg										
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg										
Misc. Organics	HMX	2691-41-0	8330A	ug/kg										
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg										
Misc. Organics	Methanol	67-56-1	8015B	ug/kg										
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg										
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg										
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg										
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg										
Misc. Organics	PETN	78-11-5	8330A	ug/kg										
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg										
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg										
Misc. Organics	RDX	121-82-4	8330A	ug/kg										
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg										
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	5.40	U	5.51	U	--	1140		869		26.98
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	5.40	U	5.51	U	--	223		169	J	27.55
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	5.40	UJ	5.51	UJ	--	17.8		13.6		26.75
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	0.128	J	5.51	UJ	200.00	18.3		14.0		26.63
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	5.40	UJ	5.51	UJ	--	9.88		7.50		27.39
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	0.186	J	0.0899	J	69.66	35.2		27.7		23.85
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	5.40	UJ	5.51	UJ	--	11.0		8.83		21.89
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	0.274	J	5.51	UJ	200.00	38.7		30.6		23.38
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	5.40	UJ	5.51	UJ	--	1.42	J	1.09	J	26.29
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	0.192	J	5.51	UJ	200.00	6.69		5.45		20.43
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	5.40	UJ	5.51	UJ	--	1.25	J	1.12	J	10.97
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	5.40	UJ	5.51	UJ	--	16.1		12.8		22.84
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	5.40	UJ	5.51	UJ	--	1.95	J	1.66	J	16.07
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	1.08	U	1.10	U	--	0.592	J	0.581	J	1.88
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	1.08	U	1.10	U	--	0.564	J	0.449	J	22.70
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.8	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.8	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.8	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.8	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.8	U	1.9	U	--	1.8	UJ	6.7	J	200.00
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	1.8	U	1.9	U	--	2.1	J	13	J	-144.37
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	1.8	U	1.9	U	--	3.9	J	8.5	J	-74.19
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.8	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.8	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.6	UJ	3.6	UJ	--	3.5	UJ	3.5	UJ	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.6	UJ	3.6	UJ	--	3.5	UJ	3.5	UJ	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	3.6	UJ	3.6	UJ	--	2.6	J	4.3	J	-49.28
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	10.8	UJ	11.0	UJ	--	8980	J	7170	J	22.41
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	10.8	UJ	11.0	UJ	--	471		362	J	26.17
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg						9.6	U	9.6	R	--
Pesticides	2,4 DB	94-82-6	8151A	ug/kg						1.8	U	1.8	U	--
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg						0.18	U	0.18	U	--
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg						0.18	U	0.18	U	--
Pesticides	2,4-D	94-75-7	8151A	ug/kg						3.8	U	3.8	U	--
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg						0.36	U	0.36	U	--
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg						0.36	U	0.36	U	--
Pesticides</														

Table C-5 5B Field Duplicates

			Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-066-SA5B DUP16-SA5B-QC-010611 01/06/2011 3 4 FD	SL-066-SA5B SL-066-SA5B-SB-3.0-4.0 01/06/2011 3 4 N	RPD	SL-071-SA5B DUP04-SA5B-QC-121310 12/13/2010 0 0.5 FD	SL-071-SA5B SL-071-SA5B-SS-0.0-0.5 12/13/2010 0 0.5 N	RPD				
Semivolatiles	2-Nitroaniline	88-74-4	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	3,3'-Dichlorobenzidine	91-94-1	8270C ug/kg	360	U	370	U	--	350	UJ	360	UJ	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C ug/kg	540	U	550	U	--	530	U	530	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C ug/kg	540	U	550	U	--	530	U	530	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM ug/kg	1.8	U	1.8	U	--	0.75	J	18	J	-184.00
Semivolatiles	Aniline	62-53-3	8270C ug/kg	540	U	550	U	--	530	U	530	U	--
Semivolatiles	Anthracene	120-12-7	8270C SIM ug/kg	1.8	U	1.8	U	--	1.6	J	6.9	J	-124.71
Semivolatiles	Benzidine	92-87-5	8270C ug/kg	3600	U	3700	R	--	3500	U	3600	UJ	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C ug/kg					--	30	J			
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM ug/kq	1.8	U	1.8	U	--			73	J	
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C ug/kg					--	33	J			
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM ug/kg	1.8	U	1.8	U	--			220		
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C ug/kg					--	60	J			
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM ug/kg	1.8	U	1.8	U	--			660		
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C ug/kg					--	33	J			
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM ug/kg	1.8	UJ	0.88	J	200.00			190		
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C ug/kg					--	24	J			
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM ug/kg	1.8	U	1.8	U	--			91	J	
Semivolatiles	Benzoic Acid	65-85-0	8270C ug/kg	540	U	550	U	--	530	U	530	U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C ug/kg	540	U	550	U	--	530	U	530	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C ug/kg					--	29	J	360	UJ	200.00
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM ug/kg	9.5	J	20	UJ	200.00					
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C ug/kg					--	19	U	19	U	--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM ug/kg	19	U	20	U	--	19	U	19	U	--
Semivolatiles	Carbazole	86-74-8	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Chrysene	218-01-9	8270C ug/kg					--	46	J			
Semivolatiles	Chrysene	218-01-9	8270C SIM ug/kg	1.8	U	1.8	U	--			450		
Semivolatiles	Dibenzof(a,h)anthracene	53-70-3	8270C SIM ug/kg	1.8	U	1.8	U	--	2.6	J	55	J	-181.94
Semivolatiles	Dibenzofuran	132-64-9	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C ug/kg					--					
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM ug/kg	19	U	20	U	--	19	U	19	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C ug/kg					--					
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM ug/kg	19	U	20	U	--	19	U	19	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C ug/kg					--					
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM ug/kg	19	U	20	U	--	6.7	J	19	UJ	200.00
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C ug/kg					--					
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM ug/kg	19	U	20	U	--	19	U	19	U	--
Semivolatiles	Fluoranthene	206-44-0	8270C ug/kg					--	64	J			
Semivolatiles	Fluoranthene	206-44-0	8270C SIM ug/kg	1.8	U	1.8	U	--			170		
Semivolatiles	Fluorene	86-73-7	8270C SIM ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C ug/kg	540	U	550	U	--	530	U	530	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C ug/kg					--	27	J			
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM ug/kg	1.8	U	1.8	U	--			290		
Semivolatiles	Isophorone	78-59-1	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Naphthalene	91-20-3	8270C SIM ug/kg	1.8	U	1.8	U	--	1.1	J	3.3	J	-100.00
Semivolatiles	Nitrobenzene	98-95-3	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C ng/kg					--					
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C ug/kg	540	U	550	U	--	530	U	530	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C ug/kg					--	23	J			
Semivolatiles	Phenanthrene	85-01-8	8270C SIM ug/kg	1.8	U	1.8	U	--			54	J	
Semivolatiles	Phenol	108-95-2	8270C ug/kg	180	U	180	U	--	180	U	180	U	--
Semivolatiles	Pyrene	129-00-0	8270C ug/kg					--	70	J			
Semivolatiles	Pyrene	129-00-0	8270C SIM ug/kg	1.8	U	1.8	U	--			85	J	
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,1,1,2-Trichloroethane	71-55-6	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,1-Dichloroethane	75-34-3	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,1-Dichloroethene	75-35-4	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,1-Dichloropropene	563-58-6	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,2-Dibromoethane	106-93-4	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,2-Dichloroethane	107-06-2	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,2-Dichloropropane	78-87-5	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,3-Dichloropropane	142-28-9	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	1,4-Dioxane	123-91-1	8260B SIM ug/kg	16	U	17	U	--					
Volatiles	2,2-Dichloropropane	594-20-7	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	2-Butanone	78-93-3	8260B ug/kg	8.9	U	8.9	U	--					
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	2-Chlorotoluene	95-49-8	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	2-Hexanone	591-78-6	8260B ug/kg	8.9	U	8.9	U	--					
Volatiles	4-Chlorotoluene	106-43-4	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B ug/kg	8.9	U	8.9	U	--					
Volatiles	Acetone	67-64-1	8260B ug/kg	8.9	U	8.9	U	--					
Volatiles	Benzene	71-43-2	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	Bromobenzene	108-86-1	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	Bromochloromethane	74-97-5	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	Bromodichloromethane	75-27-4	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	Bromoform	75-25-2	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	Bromomethane	74-83-9	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	Carbon tetrachloride	56-23-5	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	Chlorobenzene	108-90-7	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	Chloroethane	75-00-3	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	Chloroform	67-66-3	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	Chloromethane	74-87-3	8260B ug/kg	4.4	U	4.4	U	--					
Volatiles	Chlorotrifluoroethene	79-38-9	8260B ug/kg	5.5	U	5.6							

Table C-5 5B Field Duplicates

				Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-092-SA5B DUP17-SA5B-QC-011211 01/12/2011 4 5 FD		SL-092-SA5B SL-092-SA5B-SB-4.0-5.0 01/12/2011 4 5 N		RPD	SL-095-SA5B DUP18-SA5B-QC-011211 01/12/2011 4 5 FD		SL-095-SA5B SL-095-SA5B-SB-4.0-5.0 01/12/2011 4 5 N		RPD
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit										
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	17400		15100		14.15	20100		22500		-11.27
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.124	J	0.117	J	5.81	0.226	UJ	0.224	UJ	--
Inorganic	Arsenic	7440-38-2	6020	mg/kg	6.94	J	4.72	J	38.08	4.54		5.15		-12.59
Inorganic	Barium	7440-39-3	6020	mg/kg	112	J	104	J	7.41	103		106		-2.87
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.769	J	0.623	J	20.98	0.694		0.798		-13.94
Inorganic	Boron	7440-42-8	6010B	mg/kg	2.57	J	2.20	J	15.51	5.65	U	5.59	U	--
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.349	J	0.179	J	64.39	0.285	J	0.0945	J	100.40
Inorganic	Calcium	7440-70-2	6010B	mg/kg	3130		4170		-28.49	2560	J	4790	J	-60.68
Inorganic	Chromium	7440-47-3	6020	mg/kg	24.2	J	19.6	J	21.00	19.5		19.8		-1.53
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.37	J	0.40	J	-7.79	0.40	J	0.33	J	19.18
Inorganic	Cobalt	7440-48-4	6020	mg/kg	7.20		6.29		13.49	7.47	J	6.05	J	21.01
Inorganic	Copper	7440-50-8	6020	mg/kg	8.47	J	13.8	J	-47.87	9.15	J	7.47	J	20.22
Inorganic	Cyanide	57-12-5	9012B	mg/kg	0.55	U	0.54	U	--					
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	3.7		2.5		38.71	4.0	J	4.7	J	-16.09
Inorganic	Iron	7439-89-6	6010B	mg/kg	19600		24100		-20.59	21700		22900		-5.38
Inorganic	Lead	7439-92-1	6020	mg/kg	7.45	J	5.83	J	24.40	7.04		7.04		0.00
Inorganic	Lithium	7439-93-2	6010B	mg/kg	22.7		28.6		-23.00	21.7		23.4		-7.54
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	4200		5190		-21.09	4100		4300		-4.76
Inorganic	Manganese	7439-96-5	6010B	mg/kg	288		300		-4.08	282		261		7.73
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.0036	J	0.111	UJ	200.00	0.0291	J	0.0298	J	-2.38
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.598		0.471		23.76	0.772		0.681		12.53
Inorganic	Nickel	7440-02-0	6020	mg/kg	14.7	J	11.9	J	21.05	13.4		12.2		9.38
Inorganic	Nitrate	14797-55-8	300.0	mg/kg	5.9		5.2		12.61					
Inorganic	Percent Moisture	MOIST	160.3M	%	10.9		11.6		-6.22	13.2		12.3		7.06
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	33.7	U	33.9	U	--	34.6	U	34.2	U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg								5.7	U	
Inorganic	pH		9045M	pH unit	7.25		7.25		0.00	8.15		8.15		0.00
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	295	J	407	J	-31.91	220		205		7.06
Inorganic	Potassium	7440-09-7	6010B	mg/kg	2670		2870		-7.22	2350	J	1940	J	19.11
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.144	J	0.118	J	19.85	0.107	J	0.138	J	-25.31
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0461	J	0.0259	J	56.11	0.0488	J	0.0391	J	22.07
Inorganic	Sodium	7440-23-5	6010B	mg/kg	192		188		2.11	190		215		-12.35
Inorganic	Strontium	7440-24-6	6010B	mg/kg	21.0		21.7		-3.28	21.9		30.0		-31.21
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.307		0.395		-25.07	0.278		0.256		8.24
Inorganic	Tin	7440-31-5	6010B	mg/kg	10.9	U	11.0	U	--	2.52	J	2.67	J	-5.78
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1070		1190		-10.62	1150		1200		-4.26
Inorganic	Vanadium	7440-62-2	6020	mg/kg	46.0	J	37.7	J	19.83	36.8	J	37.7	J	-2.42
Inorganic	Zinc	7440-66-6	6020	mg/kg	72.3		69.2		4.38	54.6		48.3		12.24
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	1.68	J	0.949	J	55.61	5.65	U	3.06	J	200.00
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg	130	U	140	U	--					
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg	130	U	140	U	--					
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg	270	U	270	U	--					
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg	130	U	140	U	--					
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg	270	U	270	U	--					
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg	130	U	140	U	--					
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg	130	U	140	U	--					
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg	130	U	140	U	--					
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg	560	U	570	UJ	--					
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg	130	U	140	U	--					
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg	130	U	140	U	--					
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg	130	U	140	U	--					
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	14	UJ	14	UJ	--					
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg	560	U	570	U	--					
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	14	UJ	14	UJ	--					
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg	1700	U	1700	U	--					
Misc. Organics	HMX	2691-41-0	8330A	ug/kg	340	U	340	U	--					
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg	130	U	140	U	--					
Misc. Organics	Methanol	67-56-1	8015B	ug/kg	140	J	570	UJ	200.00					
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg	3.9	U	4.0	U	--					
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg	130	U	140	U	--					
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg	2700	U	2700	U	--					
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg	3.9	U	4.0	U	--					
Misc. Organics	PETN	78-11-5	8330A	ug/kg	2700	U	2700	U	--					
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	14	UJ	14	UJ	--					
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg	3.9	U	4.0	U	--					
Misc. Organics	RDX	121-82-4	8330A	ug/kg	130	U	140	U	--					
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg	130	U	140	U	--					
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	3.68	J	2.50	J	38.19	8.19	J	3.95	J	69.85
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	5.61	U	5.66	U	--	1.22	J	5.70	U	200.00
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	5.61	U	5.66	U	--	5.76	UJ	5.70	UJ	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	5.61	UJ	5.66	UJ	--	0.101	J	5.70	U	200.00
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	5.61	UJ	5.66	UJ	--	5.76	U	5.70	U	--
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	0.404	J	0.225	J	56.92	0.407	J	0.169	J	82.64
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	5.61	UJ	5.66	UJ	--	5.76	UJ	5.70	UJ	--
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	0.341	J	0.196	J	54.00	0.360	J	0.150	J	82.35
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	0.293	J	5.66	UJ	200.00	5.76	UJ	5.70	UJ	--
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	5.61	UJ	5.66	UJ	--	0.117	J	0.0322	J	113.67
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	0.264	J	0.162	J	47.89	0.132	J	5.70	UJ	200.00
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	5.61	UJ	5.66	UJ	--	5.76	UJ	5.70	UJ	--
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	5.61	UJ	5.66	UJ	--	5.76	U	5.70	U	--
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	0.0518	J	0.0612	J	-16.64	1.15	U	1.14	U	--
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	0.0967	J	0.0513	J	61.35	0.105	J	1.14	UJ	200.00
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.9	U	1.9	U	--	2.0	U	1.9	U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.9	U	1.9	U	--	2.0	U	1.9	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.9	U	1.9	U	--	2.0	U	1.9	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.9	U	1.9	U	--	2.0	U	1.9	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.9	U	1.9	U	--	2.6		2.3		12.24
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	0.69	J	1.9	UJ	200.00	1.9	J	1.5	J	23.53
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	0.69	J	0.77	J	-10.96	1.4	J	0.99	J	34.31
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.9	U	1.9	U	--	2.0	U	1.9	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.9	U	1.9	U	--	2.0	U	1.9	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.7	U	3.7	U	--	3.8	UJ	3.8	UJ	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.7	UJ	3.7	UJ	--	3.8	UJ	3.8	UJ	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	3.7	U	3.7	U	--	1.7	J	1.5	J	12.50
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	27.5		26.5		3.70	88.9	J	43.7	J	68.17
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	11.2	U	11.3	U	--	3.50	J	1.76	J	66.16
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg										
Pesticides	2,4 DB	94-82-6	8151A	ug/kg										
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg										
Pesticides	2,4,5-TP	93-72-												

Table C-5 5B Field Duplicates

			Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-092-SA5B DUP17-SA5B-QC-011211 01/12/2011 4 5 FD		SL-092-SA5B SL-092-SA5B-SB-4.0-5.0 01/12/2011 4 5 N		RPD	SL-095-SA5B DUP18-SA5B-QC-011211 01/12/2011 4 5 FD		SL-095-SA5B SL-095-SA5B-SB-4.0-5.0 01/12/2011 4 5 N		RPD	
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	3,3'-Dichlorobenzidine	91-94-1	8270C	ug/kg	370	U	380	U	--	380	U	380	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	560	UJ	570	UJ	--	580	U	570	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	560	U	570	U	--	580	U	570	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	560	U	570	U	--	580	U	570	U	--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3700	U	3800	U	--	3800	U	3800	U	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg										
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kq	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg										
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg										
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	1.0	J	0.93	J	7.25	0.97	J	1.9	UJ	200.00
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg										
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg										
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	560	U	570	U	--	580	U	570	U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	560	U	570	U	--	580	U	570	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg										
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg	20	U	20	U	--	21	U	21	U	--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg										
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg	20	U	20	U	--	21	U	21	U	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg										
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg	0.46	J	1.9	UJ	200.00	0.66	J	1.9	UJ	200.00
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg										
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg										
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg	20	U	20	U	--	21	U	21	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg										
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg	20	U	20	U	--	21	U	21	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg										
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	20	U	20	U	--	21	U	21	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg										
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg	20	UJ	20	UJ	--	21	U	21	U	--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg										
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	560	U	570	U	--	580	U	570	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg										
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg	34.0	J	30.6	J	10.53					
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	560	U	570	U	--	580	U	570	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg										
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg										
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,1,1,2-Trichloroethane	71-55-6	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg	13	U	15	U	--	15	U	14	U	--
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	2-Butanone	78-93-3	8260B	ug/kg	8.1	U	8.6	U	--	8.3	U	8.2	U	--
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg	8.1	UJ	8.6	UJ	--	8.3	U	8.2	U	--
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg	8.1	U	8.6	U	--	8.3	U	8.2	U	--
Volatiles	Acetone	67-64-1	8260B	ug/kg	8.1	U	8.6	U	--	8.3	UJ	14	J	200.00
Volatiles	Benzene	71-43-2	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg	4.1	U	4.3	U	--	4.1	U	4.1	U	--
Volatiles	Bromochloromethane	74-97-5												

Table C-5 5B Field Duplicates

				Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-100-SA5B DUP10-SA5B-QC-122210 12/22/2010 0 0.5 FD	SL-100-SA5B SL-100-SA5B-SS-0.0-0.5 12/22/2010 0 0.5 N	RPD	SL-120-SA5B DUP05-SA5B-QC-121410 12/14/2010 0 0.5 FD	SL-120-SA5B SL-120-SA5B-SS-0.0-0.5 12/14/2010 0 0.5 N	RPD
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit						
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	13900		-10.88	6070	7750	-24.31
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.232	UJ	--	0.169	0.155	8.64
Inorganic	Arsenic	7440-38-2	6020	mg/kg	4.90	J	41.68	4.38	3.17	32.05
Inorganic	Barium	7440-39-3	6020	mg/kg	98.1	J	-3.90	56.9	48.1	16.76
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.467		14.47	0.270	0.294	-8.51
Inorganic	Boron	7440-42-8	6010B	mg/kg	4.36	J	-16.23	5.07	5.91	-15.30
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.133		9.45	0.180	0.121	39.20
Inorganic	Calcium	7440-70-2	6010B	mg/kg	3070	J	-51.33	1870	2070	-10.15
Inorganic	Chromium	7440-47-3	6020	mg/kg	16.6	J	10.79	9.66	8.45	13.36
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.39	J	26.09	2.8	1.0	200.00
Inorganic	Cobalt	7440-48-4	6020	mg/kg	5.52	J	4.26	4.40	3.77	15.42
Inorganic	Copper	7440-50-8	6020	mg/kg	11.2	J	-18.62	6.39	5.68	11.76
Inorganic	Cyanide	57-12-5	9012B	mg/kg						
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	1.3		-14.29	1.0	1.0	200.00
Inorganic	Iron	7439-89-6	6010B	mg/kg	18600	J	-12.12	8140	10500	-25.32
Inorganic	Lead	7439-92-1	6020	mg/kg	5.68		12.73	6.89	5.86	16.16
Inorganic	Lithium	7439-93-2	6010B	mg/kg	21.0		-9.09	4.4	7.6	-53.33
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	4260	J	-14.78	1170	1850	-45.03
Inorganic	Manganese	7439-96-5	6010B	mg/kg	261		-8.09	94.0	131	-32.89
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.0128	J	-22.84	0.101	0.0103	200.00
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.615		31.64	0.384	0.310	21.33
Inorganic	Nickel	7440-02-0	6020	mg/kg	11.8		12.61	5.58	5.49	1.63
Inorganic	Nitrate	14797-55-8	300.0	mg/kg						
Inorganic	Percent Moisture	MOIST	160.3M	%	13.7		-1.45	3.4	4.1	-18.67
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	34.8	U	--	31.1	31.3	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg						
Inorganic	pH		9045M	pH unit	8.17		5.92	7.88	8.38	-6.15
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	361	J	-15.82	232	271	-15.51
Inorganic	Potassium	7440-09-7	6010B	mg/kg	2800	J	-8.55	955	1440	-40.50
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.463	U	--	0.157	0.146	7.26
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0302	J	-0.99	0.104	0.0154	200.00
Inorganic	Sodium	7440-23-5	6010B	mg/kg	92.3	J	-3.41	101	49.7	200.00
Inorganic	Strontium	7440-24-6	6010B	mg/kg	18.7	J	-31.15	24.4	25.0	-2.43
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.259		6.37	0.0943	0.101	-6.86
Inorganic	Tin	7440-31-5	6010B	mg/kg	2.22	J	-1.79	10.1	10.3	U
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1120		-0.89	248	404	-47.85
Inorganic	Vanadium	7440-62-2	6020	mg/kg	39.4	J	-20.50	20.2	17.5	14.32
Inorganic	Zinc	7440-66-6	6020	mg/kg	56.2		-1.76	36.5	26.3	32.48
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	1.88	J	-46.22	1.19	2.17	-58.33
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg						
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg						
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg						
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg						
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg						
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg						
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg						
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg						
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg						
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg						
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg						
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg						
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg						
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg						
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg						
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg						
Misc. Organics	HMX	2691-41-0	8330A	ug/kg						
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg						
Misc. Organics	Methanol	67-56-1	8015B	ug/kg						
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg						
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg						
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg						
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg						
Misc. Organics	PETN	78-11-5	8330A	ug/kg						
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg						
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg						
Misc. Organics	RDX	121-82-4	8330A	ug/kg						
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg						
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	69.0		26.04	16.7	18.5	-10.23
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	5.71	J	19.62	5.18	5.21	U
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	0.693	J	32.55	5.18	5.21	U
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	0.660	J	65.06	5.18	5.21	U
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	0.456	J	33.85	5.18	5.21	U
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	2.62	J	41.47	5.18	5.21	U
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	0.328	J	200.00	5.18	5.21	U
PCBs and Dioxins	1,2,3,7,8-HxCDD	19408-74-3	1613B	ng/kg	1.12	J	43.08	5.18	5.21	U
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	5.79	U	--	5.18	5.21	U
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	0.284	J	63.57	5.18	5.21	U
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	0.214	J	200.00	5.18	5.21	U
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	0.501	J	39.71	5.18	5.21	U
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	5.79	U	--	5.18	5.21	U
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	0.0317	J	200.00	1.04	1.04	UJ
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	1.16	U	--	1.04	1.04	U
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	2.0	U	--	1.8	1.8	U
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	2.0	U	--	1.8	1.8	U
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	2.0	U	--	1.8	1.8	U
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	2.0	U	--	1.8	1.8	U
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	2.0	U	--	1.8	1.8	U
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	6.4	J	200.00	1.5	0.94	J
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	2.5	J	200.00	1.1	0.91	J
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	2.0	U	--	1.8	1.8	U
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	2.0	U	--	1.8	1.8	U
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.8	U	--	3.4	3.4	UJ
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.8	U	--	3.4	3.4	UJ
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	2.1	J	200.00	3.4	1.9	J
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	666		-5.97	172	199	-14.56
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	19.0		46.75	10.3	11.5	-11.01
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg	10	U	--	9.3	9.4	R
Pesticides	2,4 DB	94-82-6	8151A	ug/kg	2.0	UJ	--	6.2	3.9	45.54
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg	0.20	UJ	200.00	0.18	0.18	U
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg	0.20	U	--	0.18	0.18	U
Pesticides	2,4-D	94-75-7	8151A	ug/kg	4.2	U	--	3.7	3.8	U
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg	0.39	U	--	0.88	0.35	U
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg	0.39	U	--	0.35	0.35	U
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg	0.39	U	--	0.85	0.35	U
Pesticides	Aldrin	309-00-2	8081A	ug/kg	0.19	U	--	0.17	0.17	U
Pesticides	Alpha-BHC	319-84-6	8081A	ug/kg	0.19	U	--	0.17	0.17	U
Pesticides	Beta-BHC	319-85-7	8081A	ug/kg	0.19	U	--	0.17	0.17	U
Pesticides	Chlordane	57-74-9	8081A	ug/kg	3.9	U	--	3.5	3.5	U
Pesticides	Delta-BHC	319-86-8	8081A	ug/kg	0.19	U	--	0.17	0.17	U
Pesticides	Dicamba	1918-00-9	8151A	ug/kg	1.4	U	--	1.2	1.3	U
Pesticides	Dichlorprop	120-36-5	8151A	ug/kg	2.0	U	--	1.8	1.8	U
Pesticides	Dieldrin	60-57-1	8081A	ug/kg	0.39	U	--	0.35	0.35	U
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	ug/kg	2.8	R	--	2.5	2.5	R
Pesticides	Endosulfan I	959-98-8	8081A	ug/kg	0.19	U	--	0.17	0.17	U
Pesticides	Endosulfan II	33213-65-9	8081A	ug/kg	0.39	U	--	0.35	0.35	U
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	ug/kg	0.39	U	--	0.35	0.35	U
Pesticides	Endrin	72-20-8	8081A	ug/kg	0.39	U	--	0.35	0.35	U
Pesticides	Endrin Aldehyde	7421-93-4	8081A	ug/kg	0.39	U	--	0.35	0.35	U
Pesticides	Endrin Ketone	53494-70-5	8081A	ug/kg	0.39	U	--	0.35	0.35	U
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	ug/kg	0.19	U	--	0.17	0.17	U
Pesticides	Heptachlor	76-44-8	8081A	ug/kg	0.19	U	--	0.17	0.17	U
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	ug/kg	0.19	U	--	0.17	0.17	U
Pesticides	MCPA	94-74-6	8151A	ug/kg	290	U	--	820	720	J
Pesticides	MCPP	93-65-2	8151A	ug/kg	430	J	200.00	260	200	J
Pesticides	Methoxychlor	72-43-5	8081A	ug/kg	1.9	U	--	1.7	1.7	U
Pesticides	Mirex	2385-85-5	8081A	ug/kg	0.39	U	--	0.35	0.35	U
Pesticides	Toxaphene	8001-35-2	8081A	ug/kg	7.6	U	--	6.8	6.9	U
Semivolatiles	1,									

Table C-5 5B Field Duplicates

				Location	SL-100-SA5B		SL-100-SA5B		RPD	SL-120-SA5B		SL-120-SA5B		RPD
				Sample Name:	DUP10-SA5B-QC-122210		SL-100-SA5B-SS-0.0-0.5			DUP05-SA5B-QC-121410	SL-120-SA5B-SS-0.0-0.5			
				Sample Date	12/22/2010		12/22/2010			12/14/2010	12/14/2010			
				Start Depth:	0		0			0	0			
				End Depth:	0.5		0.5		0.5	0.5				
				Sample Type:	FD		N		FD	N				
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	3,3'-Dichlorobenzidine	91-94-1	8270C	ug/kg	390	U	390	U	--	350	U	350	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	580	U	580	U	--	520	U	520	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	580	U	580	U	--	520	U	520	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.7	U	1.7	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.7	U	1.7	U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	580	U	580	U	--	520	U	520	U	--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	1.9	UJ	0.81	J	200.00	0.69	J	0.41	J	50.91
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3900	U	3900	U	--	3500	U	3500	UJ	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg										
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg	1.6	J	7.0	J	-125.58	10	J	4.3	J	79.72
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg										
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	2.0	J	6.1	J	-101.23	16	J	6.2	J	88.29
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg										
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	3.7	J	9.2	J	-85.27	22	J	7.4	J	99.32
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg										
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	1.4	J	3.0	J	-72.73	16	J	6.1	J	89.59
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg										
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	1.2	J	3.6	J	-100.00	7.7	J	3.8	J	67.83
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	580	U	580	U	--	520	U	520	U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	580	U	580	U	--	520	U	520	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg	23	J	20	J	13.95	350	U	350	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg										
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg										
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg	21	U	21	U	--	19	U	19	U	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg										
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg	2.2	J	6.8	J	-102.22	59	J	18	J	106.49
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg	1.9	UJ	0.80	J	200.00	3.2	J	1.2	J	90.91
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg										
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg	21	U	21	U	--	19	U	19	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg										
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg	21	U	21	U	--	19	U	19	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg										
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	21	UJ	10	J	200.00	7.3	J	6.5	J	11.59
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg										
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg	21	U	21	U	--	6.5	J	9.0	J	-32.26
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg										
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg	2.6	J	12	J	-128.77	11	J	5.8	J	61.90
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.7	U	1.7	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	580	U	580	U	--	520	U	520	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg										
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	0.97	J	2.6	J	-91.32	5.1	J	2.9	J	55.00
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	1.9	U	1.9	U	--	0.99	J	1.7	UJ	200.00
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg										
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.7	U	1.7	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	580	U	580	U	--	520	U	520	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg										
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg	1.9	UJ	3.5	J	200.00	3.7		2.3		46.67
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	190	U	190	U	--	170	U	170	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg										
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg	2.7	J	12	J	-126.53	15	J	7.0	J	72.73
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg										
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	ug/kg										
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg										
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg										
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg										
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg										
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg										
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg										
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg										
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg										
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg										
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg										
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg										
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg										
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg										
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg										
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg										
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg										
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg										
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg										
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg										
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg										
Volatiles	2-Butanone	78-93-3	8260B	ug/kg										
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg										
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg										
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg										
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg										
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg										
Volatiles	Acetone	67-64-1	8260B	ug/kg										
Volatiles	Benzene	71-43-2	8260B	ug/kg										
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg										
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg										
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg										
Volatiles	Bromoform	75-25-2	8260B	ug/kg										
Volatiles	Bromomethane	74-83-9	8260B	ug/kg										
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg										
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg										
Volatiles	Chloroethane	75-00-3	8260B	ug/kg										
Volatiles	Chloroform													

Notes:

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- RPD not calculated when both field duplicate and normal samples were nondetect or only one sample
200% - When one result is nondetect a 200% RPD is given and sample results are qualified as estimate
Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

Table C-5 5B Field Duplicates

				Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-182-SA5B DUP21-SA5B-QC-013111 01/31/2011 4 5 FD	SL-182-SA5B SL-182-SA5B-SB-4.0-5.0 01/31/2011 4 5 N	RPD	SL-189-SA5B DUP07-SA5B-QC-121610 12/16/2010 0 0.5 FD	SL-189-SA5B SL-189-SA5B-SS-0.0-0.5 12/16/2010 0 0.5 N	RPD
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit						
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	24700		24200	2.04	16400	13.68
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.144	J	0.156	-8.00	0.212	UJ
Inorganic	Arsenic	7440-38-2	6020	mg/kg	7.44		8.11	-8.62	9.23	J
Inorganic	Barium	7440-39-3	6020	mg/kg	122		132	-7.87	149	J
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.927		0.967	-4.22	0.718	J
Inorganic	Boron	7440-42-8	6010B	mg/kg	5.59	U	5.71	--	3.32	J
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.114		0.0999	13.18	0.405	J
Inorganic	Calcium	7440-70-2	6010B	mg/kg	3120		3220	-3.15	3100	
Inorganic	Chromium	7440-47-3	6020	mg/kg	26.2	J	26.1	0.38	29.4	J
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.40	J	0.36	10.53	0.68	J
Inorganic	Cobalt	7440-48-4	6020	mg/kg	6.70	J	7.72	-14.15	8.61	J
Inorganic	Copper	7440-50-8	6020	mg/kg	9.37	J	9.77	-4.18	14.6	J
Inorganic	Cyanide	57-12-5	9012B	mg/kg	0.57	U	0.57	U		
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	2.2	J	2.4	-8.70	3.0	J
Inorganic	Iron	7439-89-6	6010B	mg/kg	26800		29600	-9.93	20600	
Inorganic	Lead	7439-92-1	6020	mg/kg	9.30	J	8.56	8.29	20.3	J
Inorganic	Lithium	7439-93-2	6010B	mg/kg	27.1		30.1	-10.49	19.1	
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	4870		5550	-13.05	4040	
Inorganic	Manganese	7439-96-5	6010B	mg/kg	261	J	1010	-117.86	370	
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.111	U	0.107	U	0.102	U
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.312		0.353	-12.33	1.20	J
Inorganic	Nickel	7440-02-0	6020	mg/kg	14.1	J	18.9	-29.09	18.4	J
Inorganic	Nitrate	14797-55-8	300.0	mg/kg	1.7		1.6	6.06		
Inorganic	Percent Moisture	MOIST	160.3M	%	12.3		12.4	-0.81	6.7	
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	34.2	U	34.2	U	32.2	U
Inorganic	Perchlorate	14797-73-0	6850	ug/kg						
Inorganic	pH	9045M	pH unit	6.63		7.07	-6.42	7.21	7.23	
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	102		144	-34.15	272	J
Inorganic	Potassium	7440-09-7	6010B	mg/kg	1580		1820	-14.12	3310	J
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.0675	J	0.0848	-22.72	0.187	J
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0406	J	0.0374	8.21	0.151	J
Inorganic	Sodium	7440-23-5	6010B	mg/kg	167		177	-5.81	104	J
Inorganic	Strontium	7440-24-6	6010B	mg/kg	27.7		30.3	-8.97	21.9	
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.246		0.263	-6.68	0.388	J
Inorganic	Tin	7440-31-5	6010B	mg/kg	11.2	U	11.4	U	10.5	U
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1240		1320	-6.25	1220	
Inorganic	Vanadium	7440-62-2	6020	mg/kg	47.1	J	48.4	-2.72	52.8	J
Inorganic	Zinc	7440-66-6	6020	mg/kg	51.1		55.6	-8.43	86.0	J
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	3.70	J	5.71	200.00	1.83	J
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg	140	U	140	U		
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg	140	U	140	U		
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg	270	U	270	U		
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg	140	U	140	U		
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg	270	U	270	U		
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg	140	U	140	U		
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg	140	U	140	U		
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg	140	U	140	U		
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg	570	U	570	U		
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg	140	U	140	U		
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg	140	U	140	U		
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg	140	U	140	U		
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	14	U	14	UJ		
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg	570	U	570	U		
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	14	U	14	U		
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg	1700	U	1700	U		
Misc. Organics	HMX	2691-41-0	8330A	ug/kg	340	U	340	U		
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg	140	UJ	1100	J	200.00	
Misc. Organics	Methanol	67-56-1	8015B	ug/kg	570	U	570	U		
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg	4.0	U	4.0	U		
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg	140	U	140	U		
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg	2700	U	2700	U		
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg	4.0	U	4.0	U		
Misc. Organics	PETN	78-11-5	8330A	ug/kg	2700	U	2700	U		
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	14	U	14	U		
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg	4.0	U	4.0	U		
Misc. Organics	RDX	121-82-4	8330A	ug/kg	140	U	140	U		
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg	140	U	140	U		
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	5.70	U	5.71	U	46.3	38.3
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	5.70	U	5.71	U	6.17	5.44
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	5.70	U	5.71	U	5.36	U
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	5.70	U	5.71	U	0.578	J
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	5.70	U	5.71	U	5.36	U
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	5.70	U	5.71	U	2.07	J
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	5.70	U	5.71	U	5.36	U
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	5.70	U	5.71	U	1.72	J
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	5.70	U	5.71	U	5.36	U
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	5.70	UJ	5.71	UJ	0.372	J
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	5.70	UJ	5.71	UJ	0.478	J
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	5.70	U	5.71	U	5.36	U
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	5.70	U	5.71	U	5.36	U
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	1.14	U	1.14	U	0.0678	J
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	1.14	UJ	1.14	UJ	1.07	U
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.9	U	1.9	U	1.8	U
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.9	U	1.9	U	1.8	U
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.9	U	1.9	U	1.8	U
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.9	U	1.9	U	1.8	U
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.9	U	1.9	U	1.8	U
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	1.9	U	1.9	U	8.4	J
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	1.9	U	1.9	U	2.7	J
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.9	U	1.9	U	1.8	U
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.9	U	1.9	U	1.8	U
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.8	UJ	3.8	UJ	3.5	UJ
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.8	UJ	3.8	UJ	3.5	UJ
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	3.8	UJ	3.8	UJ	5.2	J
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	11.4	UJ	11.4	UJ	738	J
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	11.4	U	11.4	U	20.2	
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg				9.6	R	9.7
Pesticides	2,4 DB	94-82-6	8151A	ug/kg				3.4	U	1.8
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg				0.18	U	0.18
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg				0.18	U	0.18
Pesticides	2,4-D	94-75-7	8151A	ug/kg				3.9	R	3.9
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg				0.36	UJ	0.37
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg				0.36	UJ	0.37
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg				0.36	UJ	0.37
Pesticides	Aldrin	309-00-2	8081A	ug/kg				0.18	UJ	0.18
Pesticides	Alpha-BHC	319-84-6	8081A	ug/kg				0.18	UJ	0.18
Pesticides	Beta-BHC	319-85-7	8081A	ug/kg				0.18	UJ	0.18
Pesticides	Chlordane	57-74-9	8081A	ug/kg				3.6	UJ	3.7
Pesticides	Delta-BHC	319-86-8	8081A	ug/kg				0.18	UJ	0.18
Pesticides	Dicamba	1918-00-9	8151A	ug/kg				0.47	J	0.49
Pesticides	Dichloroprop	120-36-5	8151A	ug/kg				1.8	U	1.8
Pesticides	Dieldrin	60-57-1	8081A	ug/kg				0.36	UJ	0.37
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	ug/kg				2.6	R	2.6
Pesticides	Endosulfan I	959-98-8	8081A	ug/kg				0.18	UJ	0.18
Pesticides	Endosulfan II	33213-65-9	8081A	ug/kg				0.36	UJ	0.37
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	ug/kg				0.36	UJ	0.37
Pesticides	Endrin	72-20-8	8081A	ug/kg				0.36	UJ	0.37
Pesticides	Endrin Aldehyde	7421-93-4	8081A	ug/kg				0.36	UJ	0.37
Pesticides	Endrin Ketone	53494-70-5	8081A	ug/kg				0.36	UJ	0.37
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	ug/kg				0.18	UJ	0.18
Pesticides	Heptachlor	76-44-8	8081A	ug/kg				0.18	UJ	0.18
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	ug/kg				0.18	UJ	0.18
Pesticides	MCPA	94-74-6	8151A	ug/kg				410		270
Pesticides	MCPP	93-65-2	8151A	ug/kg				270	U	610
Pesticides	Methoxychlor	72-43-5	8081A	ug/kg				1.8	UJ	1.8
Pesticides	Mirex	2385-85-5	8081A	ug/kg				0.36	UJ	0.37
Pesticides	Toxaphene	8001-35-2	8081A	ug/kg				7.1	UJ	7.1
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg	190	U	190	U	180	

Table C-5 5B Field Duplicates

			Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-182-SA5B DUP21-SA5B-QC-013111 01/31/2011 4 5 FD		SL-182-SA5B SL-182-SA5B-SB-4.0-5.0 01/31/2011 4 5 N		RPD	SL-189-SA5B DUP07-SA5B-QC-121610 12/16/2010 0 0.5 FD		SL-189-SA5B SL-189-SA5B-SS-0.0-0.5 12/16/2010 0 0.5 N		RPD	
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	3,3'-Dichlorobenzidine	91-94-1	8270C	ug/kg	380	U	380	U	--	360	U	360	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	570	U	570	U	--	540	U	540	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	570	U	570	U	--	540	U	540	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	2.1	J	1.9	UJ	200.00	1.8	U	1.8	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.8	U	1.8	U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	570	U	570	U	--	540	U	540	UJ	--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	3.7	J	1.9	UJ	200.00	1.8	U	1.8	U	--
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3800	U	3800	UJ	--	3600	R	3600	R	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg										
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kq	12	J	1.9	UJ	200.00	1.7	J	1.8	U	200.00
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg										
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	13	J	1.9	UJ	200.00	1.7	J	1.8	U	200.00
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg										
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	18	J	1.9	UJ	200.00	3.0		0.85	J	111.69
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg										
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	4.9	J	1.9	UJ	200.00	1.4	J	1.8	U	200.00
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg										
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	8.0	J	1.9	UJ	200.00	0.95	J	1.8	U	200.00
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	570	U	570	U	--	540	U	540	U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	570	U	570	U	--	540	U	540	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg										
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg	15	J	7.1	J	71.49	12	J	19	U	200.00
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg										
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg	21	U	21	U	--	19	U	19	U	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg										
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg	14	J	1.9	UJ	200.00	3.4		0.96	J	111.93
Semivolatiles	Dibenzof(a,h)anthracene	53-70-3	8270C SIM	ug/kg	1.6	J	1.9	UJ	200.00	1.8	U	1.8	U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg										
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg	21	U	21	U	--	19	U	19	UJ	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg										
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg	21	U	21	U	--	19	U	19	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg										
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	21	U	21	U	--	19	U	19	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg										
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg	21	U	21	U	--	19	U	19	U	--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg										
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg	28	J	1.9	UJ	200.00	2.7		1.8	U	40.00
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	1.5	J	1.9	UJ	200.00	1.8	U	1.8	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	570	U	570	U	--	540	U	540	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg										
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	4.1	J	1.9	UJ	200.00	1.3	J	1.8	U	200.00
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.2	J	1.8	U	200.00
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg	38.0	U	38.1	U	--					
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.8	U	1.8	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	570	U	570	U	--	540	U	540	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg										
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg	16	J	1.9	UJ	200.00	1.9		1.8	U	5.41
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	190	U	190	U	--	180	U	180	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg										
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg	24	J	1.9	UJ	200.00	2.5		1.8	U	32.56
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,1,1,2-Trichloroethane	71-55-6	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg	4.2	UJ	4.0	UJ	--					
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg	16	U	15	U	--					
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	2-Butanone	78-93-3	8260B	ug/kg	8.5	U	8.1	U	--					
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg	8.5	U	8.1	U	--					
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg	8.5	U	8.1	U	--					
Volatiles	Acetone	67-64-1	8260B	ug/kg	8.5	U	8.1	U	--					
Volatiles	Benzene	71-43-2	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg	4.2	U	4.0	U	--					
Volatiles	Bromoform	75-25-2	8260B	ug/kg	4.2	U	4.0	U	--			</		

Table C-5 5B Field Duplicates

				Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-195-SA5B DUP22-SA5B-QC-013111 01/31/2011 4 5 FD		SL-195-SA5B SL-195-SA5B-SB-4.0-5.0 01/31/2011 4 5 N		RPD	SL-211-SA5B DUP08-SA5B-QC-121710 12/17/2010 0 0.5 FD		SL-211-SA5B SL-211-SA5B-SS-0.0-0.5 12/17/2010 0 0.5 N		RPD
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit										
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	22000	J	15600	J	34.04	23100		25100		-8.30
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.136	J	0.113	J	18.47	0.113	J	0.218	J	-63.44
Inorganic	Arsenic	7440-38-2	6020	mg/kg	6.04		4.48		29.66	11.8	J	9.74		19.13
Inorganic	Barium	7440-39-3	6020	mg/kg	94.7		89.7		5.42	156		143		8.70
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.697		0.569		20.22	0.958		0.911	J	5.03
Inorganic	Boron	7440-42-8	6010B	mg/kg	5.58	UJ	1.76	J	200.00	7.84		5.21	J	40.31
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.0670	J	0.158	J	-80.89	1.70	J	1.67	J	1.78
Inorganic	Calcium	7440-70-2	6010B	mg/kg	2450	J	2120	J	14.44	6300		6060		3.88
Inorganic	Chromium	7440-47-3	6020	mg/kg	21.1		17.9		16.41	47.2	J	43.9	J	7.24
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.42	J	0.50	J	-17.39	0.59	J	0.87	J	-38.36
Inorganic	Cobalt	7440-48-4	6020	mg/kg	5.99		5.35		11.29	8.63	J	7.38	J	15.62
Inorganic	Copper	7440-50-8	6020	mg/kg	7.89		8.48		-7.21	39.6	J	36.7	J	7.60
Inorganic	Cyanide	57-12-5	9012B	mg/kg										
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	1.7	J	1.7	J	0.00	2.9		4.2	J	-36.62
Inorganic	Iron	7439-89-6	6010B	mg/kg	24500	J	17900	J	31.13	27300		28600		-4.65
Inorganic	Lead	7439-92-1	6020	mg/kg	6.10		5.02		19.42	21.6	J	21.7		-0.46
Inorganic	Lithium	7439-93-2	6010B	mg/kg	23.9	J	16.5	J	36.63	38.4		40.4		-5.08
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	4470	J	3320	J	29.53	5940		6130		-3.15
Inorganic	Manganese	7439-96-5	6010B	mg/kg	337	J	300	J	11.62	344		386		-11.51
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.108	U	0.109	U	--	0.0498	J	0.0687	J	-31.90
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.665		0.622		6.68	1.31	J	1.09		18.33
Inorganic	Nickel	7440-02-0	6020	mg/kg	12.0		11.1		7.79	23.4	J	20.2	J	14.68
Inorganic	Nitrate	14797-55-8	300.0	mg/kg										
Inorganic	Percent Moisture	MOIST	160.3M	%	12.2		13.2		-7.87	10.8		11.4		-5.41
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	34.2	U	34.6	U	--	33.6	U	33.9	U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg										
Inorganic	pH		9045M	pH unit	6.60		7.10		-7.30	8.03		8.13		-1.24
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	238	J	220	J	7.86	536		550		-2.58
Inorganic	Potassium	7440-09-7	6010B	mg/kg	2470	J	2650	J	-7.03	4320		4420		-2.29
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.155	J	0.130	J	17.54	0.266	J	0.319	J	-18.12
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0406	J	0.0203	J	66.67	34.3		44.8	J	-26.55
Inorganic	Sodium	7440-23-5	6010B	mg/kg	117		86.9	J	29.52	120		116		3.39
Inorganic	Strontium	7440-24-6	6010B	mg/kg	21.5	J	20.7	J	3.79	39.9		40.8		-2.23
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.299		0.257		15.11	0.403		0.323		22.04
Inorganic	Tin	7440-31-5	6010B	mg/kg	11.2	U	11.3	U	--	10.7	U	11.2	U	--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1300	J	1190	J	8.84	1320		1490		-12.10
Inorganic	Vanadium	7440-62-2	6020	mg/kg	39.3		32.2		19.86	59.1	J	42.1	J	33.60
Inorganic	Zinc	7440-66-6	6020	mg/kg	48.6	J	44.1	J	9.71	151		132		13.43
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	5.58	U	5.65	U	--	4.80	J	2.37	J	67.78
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg										
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg										
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg										
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg										
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg										
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg										
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg										
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg										
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg										
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg										
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg										
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg										
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg										
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg										
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg										
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg										
Misc. Organics	HMX	2691-41-0	8330A	ug/kg										
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg										
Misc. Organics	Methanol	67-56-1	8015B	ug/kg										
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg										
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg										
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg										
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg										
Misc. Organics	PETN	78-11-5	8330A	ug/kg										
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg										
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg										
Misc. Organics	RDX	121-82-4	8330A	ug/kg										
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg										
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	5.69	U	5.76	U	--	2720	J	2150		23.41
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	5.69	U	5.76	U	--	483		407	J	17.08
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	5.69	UJ	5.76	UJ	--	59.8		49.6		18.65
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	5.69	U	5.76	U	--	23.6		19.9		17.01
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	5.69	U	5.76	U	--	20.8		17.8		15.54
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	5.69	U	5.76	U	--	114		95.0		18.18
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	5.69	UJ	5.76	UJ	--	22.8		19.4		16.11
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	0.145	J	0.198	J	-30.90	41.9		35.9		15.42
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	5.69	UJ	5.76	UJ	--	4.86	J	4.22	J	14.10
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	5.69	UJ	5.76	UJ	--	12.4		8.69		35.18
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	5.69	UJ	5.76	UJ	--	7.75		7.32		5.71
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	5.69	UJ	5.76	UJ	--	41.3		34.1		19.10
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	5.69	UJ	5.76	UJ	--	7.55		6.96		8.13
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	1.14	U	1.15	U	--	2.77		2.29		18.97
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	1.14	U	1.15	U	--	5.44		4.64		15.87
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.9	U	2.0	U	--	1.9	U	9.6	U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.9	U	2.0	U	--	1.9	U	9.6	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.9	U	2.0	U	--	1.9	U	9.6	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.9	U	2.0	U	--	1.9	U	9.6	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.9	U	2.0	U	--	1.9	U	9.6	U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	1.9	U	2.0	U	--	34		99		-97.74
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	1.9	U	2.0	U	--	13		69		-136.59
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.9	U	2.0	U	--	1.9	U	9.6	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.9	U	2.0	U	--	1.9	U	9.6	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.8	UJ	3.8	UJ	--	3.7	UJ	19	UJ	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.8	UJ	3.8	UJ	--	3.7	UJ	19	UJ	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	3.8	UJ	3.8	UJ	--	11	J	60	J	-138.03
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	11.4	U	11.5	U	--	26800	J	22700	J	16.57
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	11.4	UJ	11.5	UJ	--	1130		906	J	22.00
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg						10	U	10	R	--
Pesticides	2,4 DB	94-82-6	8151A	ug/kg						1.9	U	14	J	200.00
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg						0.19	U	0.19	U	--
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg						0.19	U	0.19	U	--
Pesticides	2,4-D	94-75-7	8151A	ug/kg						4.0	U	4.1	U	--
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg						3.3	U	0.81	U	--
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg						1.9	U	1.3	U	--
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg						4.5				

Table C-5 5B Field Duplicates

			Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-195-SA5B DUP22-SA5B-QC-013111 01/31/2011 4 5 FD		SL-195-SA5B SL-195-SA5B-SB-4.0-5.0 01/31/2011 4 5 N		RPD	SL-211-SA5B DUP08-SA5B-QC-121710 12/17/2010 0 0.5 FD		SL-211-SA5B SL-211-SA5B-SS-0.0-0.5 12/17/2010 0 0.5 N		RPD	
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	3,3'-Dichlorobenzidine	91-94-1	8270C	ug/kg	380	U	380	U	--	370	U	380	UJ	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	570	U	580	U	--	560	U	560	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	570	U	580	U	--	560	U	560	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	1.9	U	1.9	U	--	0.82	J	0.56	J	37.68
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	570	U	580	U	--	560	U	560	U	--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	1.9	U	1.9	U	--	2.7	J	1.6	J	51.16
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3800	U	3800	R	--	3700	U	3800	UJ	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg										
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kq	1.9	U	1.9	U	--	5.8		4.1		34.34
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg										
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	1.9	U	1.9	U	--	7.4		5.5		29.46
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg										
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	1.9	U	1.9	U	--	27		18		40.00
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg										
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	1.9	U	1.9	U	--	18		19		-5.41
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg										
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	570	U	580	U	--	560	U	560	U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	570	U	580	U	--	560	U	560	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg								31	J	
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg	21	UJ	7.7	J	200.00	14	J			200.00
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg										
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg	21	U	21	U	--	7.6	J	20	U	200.00
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg										
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg	1.9	U	1.9	U	--	11		7.2		41.76
Semivolatiles	Dibenzof(a,h)anthracene	53-70-3	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.3	J	1.1	J	16.67
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg										
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg	21	U	21	U	--	20	U	20	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg										
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg	21	U	21	U	--	20	U	20	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg										
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	21	U	21	U	--	20	U	20	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg										
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg	21	U	21	U	--	20	U	20	U	--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg										
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg	1.9	U	1.9	U	--	13		8.2		45.28
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	570	U	580	U	--	560	U	560	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg										
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	1.9	U	1.9	U	--	9.3		9.8		-5.24
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	1.9	U	1.9	U	--	2.1		1.5	J	33.33
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg										
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	1.9	U	1.9	U	--	1.9	U	1.9	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	570	U	580	U	--	560	U	560	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg										
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg	1.9	U	1.9	U	--	6.2		4.0		43.14
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	190	U	190	U	--	190	U	190	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg										
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg	1.9	U	1.9	U	--	14		8.6		47.79
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,1,1,2-Trichloroethane	71-55-6	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg	16	U	13	U	--					
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	2-Butanone	78-93-3	8260B	ug/kg	8.5	U	7.5	U	--					
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg	8.5	U	7.5	U	--					
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg	8.5	U	7.5	U	--					
Volatiles	Acetone	67-64-1	8260B	ug/kg	8.5	U	7.5	U	--					
Volatiles	Benzene	71-43-2	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	Bromoform	75-25-2	8260B	ug/kg	4.3	U	3.7	U	--					
Volatiles	Bromomethane	74-83-9	8260B	ug/kg	4.3	U	3.7	U	--					
Volat														

Table C-5 5B Field Duplicates

				Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-215-SA5B DUP09-SA5B-QC-122010 0 0.5 FD		SL-215-SA5B SL-215-SA5B-SS-0.0-0.5 12/20/2010 0 0.5 N		RPD	SL-253-SA5B DUP20-SA5B-QC-012111 01/21/2011 3 4 FD		SL-253-SA5B SL-253-SA5B-SB-3.0-4.0 01/21/2011 3 4 N		RPD
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit										
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	10300	J	12700	J	-20.87	26200		27600		-5.20
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.129	J	0.156	J	-18.95	0.227 UJ		0.224 UJ		--
Inorganic	Arsenic	7440-38-2	6020	mg/kg	3.01	J	3.57	J	-17.02	6.08 J		5.53 J		9.47
Inorganic	Barium	7440-39-3	6020	mg/kg	62.7	J	68.1	J	-8.26	160		141		12.62
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.378		0.473		-22.33	0.910 J		0.935 J		-2.71
Inorganic	Boron	7440-42-8	6010B	mg/kg	5.36	J	6.28	J	-15.81	1.77 J		1.49 J		17.18
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.204	J	0.202	J	0.99	0.234		0.154		41.24
Inorganic	Calcium	7440-70-2	6010B	mg/kg	2360	J	2770	J	-15.98	3110		3320		-6.53
Inorganic	Chromium	7440-47-3	6020	mg/kg	13.1	J	14.2	J	-8.06	32.9 J		32.4 J		1.53
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.86	J	0.76	J	12.35	0.34 J		0.41 J		-18.67
Inorganic	Cobalt	7440-48-4	6020	mg/kg	4.14		4.54		-9.22	10.8		7.70		33.51
Inorganic	Copper	7440-50-8	6020	mg/kg	6.91	J	7.44	J	-7.39	14.1		14.1		0.00
Inorganic	Cyanide	57-12-5	9012B	mg/kg										
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	2.6		2.4	J	8.00	1.6 J		1.8 J		-11.76
Inorganic	Iron	7439-89-6	6010B	mg/kg	11800	J	14800	J	-22.56	29400		27900		5.24
Inorganic	Lead	7439-92-1	6020	mg/kg	39.9	J	47.4	J	-17.18	8.38 J		7.43 J		12.02
Inorganic	Lithium	7439-93-2	6010B	mg/kg	11.7		14.6		-22.05	30.7		33.6		-9.02
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	2470	J	3030	J	-20.36	4750		4810		-1.26
Inorganic	Manganese	7439-96-5	6010B	mg/kg	176	J	229	J	-26.17	647		406		45.77
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.0107	J	0.0050	J	72.61	0.114 U		0.111 U		--
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.425	J	0.453	J	-6.38	0.530		0.449		16.55
Inorganic	Nickel	7440-02-0	6020	mg/kg	8.84	J	9.68	J	-9.07	22.1		19.3		13.53
Inorganic	Nitrate	14797-55-8	300.0	mg/kg										
Inorganic	Percent Moisture	MOIST	160.3M	%	34.0		28.1		19.00	13.6		13.5		0.74
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	45.5	U	41.7	U	--	34.7 U		34.7 U		--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg										
Inorganic	pH		9045M	pH unit	7.15		7.16		-0.14	6.87		6.14		11.22
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	209	J	260	J	-21.75	217 J		180 J		18.64
Inorganic	Potassium	7440-09-7	6010B	mg/kg	2030		2500		-20.75	2170 J		1890 J		13.79
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.146	J	0.196	J	-29.24	0.155 J		0.199 J		-24.86
Inorganic	Silver	7440-22-4	6020	mg/kg	0.153		0.197		-25.14	0.0524 J		0.0562 J		-7.00
Inorganic	Sodium	7440-23-5	6010B	mg/kg	80.5	J	94.3	J	-15.79	136		147		-7.77
Inorganic	Strontium	7440-24-6	6010B	mg/kg	16.5		19.5		-16.67	30.7		30.6		0.33
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.180	J	0.222	J	-20.90	0.374 J		0.334 J		11.30
Inorganic	Tin	7440-31-5	6010B	mg/kg	15.0	U	13.2	U	--	11.1 U		11.3 U		--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1150		1070		7.21	1500		1530		-1.98
Inorganic	Vanadium	7440-62-2	6020	mg/kg	22.9	J	25.0	J	-8.77	58.9		58.1		1.37
Inorganic	Zinc	7440-66-6	6020	mg/kg	45.0	J	51.0	J	-12.50	60.2		51.8		15.00
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	2.67	J	2.96	J	-10.30	3.20 J		3.26 J		-1.86
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg										
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg										
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg										
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg										
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg										
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg										
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg										
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg										
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg										
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg										
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg										
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg										
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg										
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg										
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg										
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg										
Misc. Organics	HMX	2691-41-0	8330A	ug/kg										
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg										
Misc. Organics	Methanol	67-56-1	8015B	ug/kg										
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg										
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg										
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg										
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg										
Misc. Organics	PETN	78-11-5	8330A	ug/kg										
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg										
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg										
Misc. Organics	RDX	121-82-4	8330A	ug/kg										
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg										
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	126		119		5.71	5.79 U		5.78 U		--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	17.2		16.4		4.76	5.79 UJ		5.78 UJ		--
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	1.32	J	1.45	J	-9.39	5.79 UJ		5.78 UJ		--
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	1.55	J	1.56	J	-0.64	5.79 U		5.78 U		--
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	1.51	J	1.54	J	-1.97	5.79 UJ		5.78 UJ		--
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	5.07	J	4.84	J	4.64	5.79 U		5.78 U		--
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	1.13	J	1.41	J	-22.05	5.79 UJ		5.78 UJ		--
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	3.38	J	3.16	J	6.73	5.79 U		5.78 U		--
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	7.58	U	6.95	U	--	5.79 U		5.78 U		--
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	0.874	J	0.873	J	0.11	5.79 UJ		5.78 UJ		--
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	1.72	J	1.66	J	3.55	5.79 UJ		5.78 UJ		--
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	1.52	J	1.47	J	3.34	5.79 UJ		5.78 UJ		--
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	2.51	J	2.24	J	11.37	5.79 UJ		5.78 UJ		--
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	1.52	U	0.182	J	157.23	1.16 U		1.16 U		--
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	0.709	J	0.801	J	-12.19	0.0374 J		1.16 UJ		200.00
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	5.2	U	2.4	U	--	2.0 U		2.0 U		--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	5.2	U	2.4	U	--	2.0 U		2.0 U		--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	5.2	U	2.4	U	--	2.0 U		2.0 U		--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	5.2	U	2.4	U	--	2.0 U		2.0 U		--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	5.2	U	2.4	U	--	2.0 U		2.0 U		--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	21	J	37	J	-55.17	2.0 U		2.0 U		--
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	9.9		8.7		12.90	2.0 U		2.0 U		--
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	5.2	U	2.4	U	--	2.0 U		2.0 U		--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	5.2	U	2.4	U	--	2.0 U		2.0 U		--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	10	UJ	4.6	UJ	--	3.8 UJ		3.8 UJ		--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	10	UJ	4.6	UJ	--	3.8 UJ		3.8 UJ		--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	16	J	37	J	-79.25	3.8 U		3.8 U		--
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	1560		1560		0.00	5.01 J		3.98 J		22.91
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	39.3		39.0		0.77	11.6 UJ		11.6 UJ		--
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg	14	U	13	U	--					
Pesticides	2,4 DB	94-82-6	8151A	ug/kg	2.6	U	2.8	U	--					
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg	0.26	U	0.24	U	--					
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg	0.26	U	0.24	U	--					
Pesticides	2,4-D	94-75-7	8151A	ug/kg	5.5	U	5.0	U	--					
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg	0.52	U	1.5	UJ	--					
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg	1.8	U	0.47	UJ	--					
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg	3.2	J	1.2	UJ	200.00					
Pestic														

Table C-5 5B Field Duplicates

			Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-215-SA5B DUP09-SA5B-QC-122010 0 0.5 FD		SL-215-SA5B SL-215-SA5B-SS-0.0-0.5 12/20/2010 0 0.5 N		RPD	SL-253-SA5B DUP20-SA5B-QC-012111 01/21/2011 3 4 FD	SL-253-SA5B SL-253-SA5B-SB-3.0-4.0 01/21/2011 3 4 N	RPD	
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	3,3'-Dichlorobenzidine	91-94-1	8270C	ug/kg	510	U	460	U	--	390 U	390 U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	760	U	700	U	--	580 U	580 U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	760	U	700	U	--	580 U	580 U	--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	13	U	12	U	--	1.9 U	1.9 U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	13	U	12	U	--	1.9 U	1.9 U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	760	U	700	U	--	580 U	580 U	--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	3.9	J	4.9	J	-22.73	1.9 U	1.9 U	--
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	5100	U	4600	R	--	3900 U	3900 UJ	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg	28	J						
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kq			18		1.9 U		1.9 U	--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg	60	J						
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg			59		1.9 U		1.9 U	--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg	180	J						
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg			230		1.9 U		1.9 U	--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg	86	J						
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg			28		1.9 U		1.9 U	--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg								
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	13	U	12	U	--	1.9 U	1.9 U	--
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	760	U	700	U	--	580 U	580 U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	760	U	700	U	--	580 U	580 U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg	58	J	42	J	32.00			
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg					21 U		21 U	--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg	250	U	230	U	--			
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg					21 U		21 U	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg	120	J						
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg			93		1.9 U		1.9 U	--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg	13	UJ	9.6	J	200.00	1.9 U	1.9 U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg	250	U	230	U	--			
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg					21 U		21 U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg	250	U	230	U	--			
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg					21 U		21 U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg	250	U	230	U	--			
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg					21 U		21 U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg	250	U	230	U	--			
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg					21 U		21 U	--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg	64	J						
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg			41		1.9 U		1.9 U	--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	13	U	12	U	--	1.9 U	1.9 U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	760	U	700	U	--	580 U	580 U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg	100	J						
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg			45		1.9 U		1.9 U	--
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	9.1	J	5.1	J	56.34	1.9 U	1.9 U	--
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg								
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	13	U	12	U	--	1.9 U	1.9 U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	760	U	700	U	--	580 U	580 U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg	45	J						
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg			26		1.9 U		1.9 U	--
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	250	U	230	U	--	190 U	190 U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg	53	J						
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg			31		1.9 U		1.9 U	--
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,1,1,1-Trichloroethane	71-55-6	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg					15 U		15 U	--
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	2-Butanone	78-93-3	8260B	ug/kg					8.0 U		7.6 U	--
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg					8.0 UJ		7.6 UJ	--
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg					8.0 U		7.6 U	--
Volatiles	Acetone	67-64-1	8260B	ug/kg					8.0 U		7.6 U	--
Volatiles	Benzene	71-43-2	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	Bromoform	75-25-2	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	Bromomethane	74-83-9	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	Chloroethane	75-00-3	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	Chloroform	67-66-3	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	Chloromethane	74-87-3	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	ug/kg					5.0 UJ		4.8 UJ	--
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	Dibromochloromethane	124-48-1	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	Dibromomethane	74-95-3	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	ug/kg					4.0 U		3.8 U	--
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	mg/kg								

Table C-5 5B Field Duplicates

				Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-262-SA5B DUP06-SA5B-QC-121510 0 0.5 FD		SL-262-SA5B SL-262-SA5B-SS-0.0-0.5 12/15/2010 0 0.5 N		RPD	SL-288-SA5B DUP03-SA5B-QC-121010 12/10/2010 0 0.5 FD		SL-288-SA5B SL-288-SA5B-SS-0.0-0.5 12/10/2010 0 0.5 N		RPD
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit										
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	17000		18100		-6.27	3240	J	3760	J	-14.86
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.216	J	0.282	J	-26.51	0.206	UJ	0.366	UJ	--
Inorganic	Arsenic	7440-38-2	6020	mg/kg	8.73	J	6.06	J	36.11	3.76	J	3.22	J	15.47
Inorganic	Barium	7440-39-3	6020	mg/kg	145	J	104	J	32.93	24.2	J	21.9	J	9.98
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.793		0.633		22.44	0.149	J	0.161	J	-7.74
Inorganic	Boron	7440-42-8	6010B	mg/kg	5.11	U	5.12	U	--	2.88	J	3.02	J	-4.75
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.209	J	0.175	J	17.71	0.110	J	0.0987	J	10.83
Inorganic	Calcium	7440-70-2	6010B	mg/kg	3240		3630		-11.35	8080	J	7300	J	10.14
Inorganic	Chromium	7440-47-3	6020	mg/kg	30.9	J	24.3	J	23.91	13.7	J	13.2	J	3.72
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	1.1	U	1.1	U	--	0.30	J	1.0	UJ	200.00
Inorganic	Cobalt	7440-48-4	6020	mg/kg	8.88		6.55		30.20	2.52	J	2.34	J	7.41
Inorganic	Copper	7440-50-8	6020	mg/kg	13.6		11.1		20.24	4.05	J	3.30	J	20.41
Inorganic	Cyanide	57-12-5	9012B	mg/kg										
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	1.4	J	1.8	J	-25.00	1.1	U	1.0	U	--
Inorganic	Iron	7439-89-6	6010B	mg/kg	23500		24600		-4.57	5290		5330		-0.75
Inorganic	Lead	7439-92-1	6020	mg/kg	16.1	J	13.6	J	16.84	5.42	J	1.78	J	101.11
Inorganic	Lithium	7439-93-2	6010B	mg/kg	24.1		27.7		-13.90	2.9		3.2		-9.84
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	5050		6350		-22.81	1010		1030		-1.96
Inorganic	Manganese	7439-96-5	6010B	mg/kg	287		334		-15.14	105	J	104	J	0.96
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.0331	J	0.0044	J	153.07	0.102	U	0.103	U	--
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.885	J	0.802	J	9.84	0.826	J	0.841	J	-1.80
Inorganic	Nickel	7440-02-0	6020	mg/kg	19.5	J	15.1	J	25.43	8.00	J	7.44	J	7.25
Inorganic	Nitrate	14797-55-8	300.0	mg/kg										
Inorganic	Percent Moisture	MOIST	160.3M	%	5.0		5.2		-3.92	4.8		4.3		10.99
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	31.6	U	31.6	U	--	31.5	U	31.3	U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg										
Inorganic	pH		9045M	pH unit	6.93		6.85		1.16	8.70		8.71		-0.11
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	378		481		-23.98	357	J	320	J	10.93
Inorganic	Potassium	7440-09-7	6010B	mg/kg	2960	J	3390	J	-13.54	627		595		5.24
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.205	J	0.189	J	8.12	0.117	J	0.193	J	-49.03
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0779	J	0.0970	J	-21.84	0.103	U	0.102	U	--
Inorganic	Sodium	7440-23-5	6010B	mg/kg	114		120		-5.13	54.3	J	51.4	J	5.49
Inorganic	Strontium	7440-24-6	6010B	mg/kg	19.5		20.2		-3.53	15.4		14.8		3.97
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.396	J	0.291	J	30.57	0.0571	J	0.0604	J	-5.62
Inorganic	Tin	7440-31-5	6010B	mg/kg	10.2	U	10.2	U	--	10.5	U	10.1	U	--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1360		1580		-14.97	291	J	310	J	-6.32
Inorganic	Vanadium	7440-62-2	6020	mg/kg	59.2	J	46.5	J	24.03	16.5	J	15.3	J	7.55
Inorganic	Zinc	7440-66-6	6020	mg/kg	112	J	81.9	J	31.05	15.6	J	13.0	J	18.18
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	3.29	J	3.57	J	-8.16	2.03	J	2.52	J	-21.54
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg										
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg										
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg										
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg										
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg										
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg										
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg										
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg										
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg										
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg										
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg										
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg										
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg										
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg										
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg										
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg										
Misc. Organics	HMX	2691-41-0	8330A	ug/kg										
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg										
Misc. Organics	Methanol	67-56-1	8015B	ug/kg										
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg										
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg										
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg										
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg										
Misc. Organics	PETN	78-11-5	8330A	ug/kg										
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg										
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg										
Misc. Organics	RDX	121-82-4	8330A	ug/kg										
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg										
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	18.6		18.8		-1.07	1.76	J	2.27	J	-25.31
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	3.57	J	3.75	J	-4.92	5.25	U	5.22	U	--
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	5.26	U	5.27	U	--	5.25	U	5.22	U	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	0.343	J	0.433	J	-23.20	5.25	UJ	5.22	UJ	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	5.26	U	5.27	U	--	5.25	U	5.22	U	--
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	1.01	J	0.859	J	16.16	5.25	U	5.22	U	--
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	5.26	U	5.27	U	--	5.25	U	5.22	U	--
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	0.865	J	0.895	J	-3.41	5.25	U	5.22	U	--
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	5.26	U	5.27	U	--	5.25	U	5.22	U	--
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	0.471	J	0.363	J	25.90	5.25	UJ	5.22	UJ	--
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	0.481	J	0.395	J	19.63	5.25	UJ	5.22	UJ	--
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	5.26	U	5.27	U	--	5.25	U	5.22	U	--
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	0.746	J	0.549	J	30.42	5.25	U	5.22	U	--
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	5.58		5.27		5.71	0.0263	J	0.0189	J	32.74
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	0.377	J	0.279	J	29.88	0.0207	J	1.04	UJ	200.00
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.8	U	1.8	U	--	0.78	J	1.8	UJ	200.00
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	1.4	J	4.4	J	-103.45	1.8	UJ	1.2	J	200.00
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	1.3	J	2.3	J	-55.56	2.1	J	3.8	J	-57.63
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.5	UJ	3.5	UJ	--	3.5	U	3.4	U	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.5	UJ	3.5	UJ	--	3.5	U	3.4	U	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	2.3	J	4.4	J	-62.69	1.4	J	2.7	J	-63.41
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	247		214		14.32	18.7		21.7		-14.85
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	8.34	J	8.41	J	-0.84	10.5	U	10.4	U	--
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg	9.5	U	9.5	U	--	9.5	U	9.4	U	--
Pesticides	2,4 DB	94-82-6	8151A	ug/kg	5.9	U	2.8	U	--	1.8	U	1.8	U	--
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg	0.18	U	0.18	U	--	0.18	U	0.18	U	--
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg	0.18	U	0.18	U	--	0.18	U	0.18	U	--
Pesticides	2,4-D	94-75-7	8151A	ug/kg	3.8	U	3.8	U	--	3.8	U	3.8	U	--
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg	1.9	U	0.36	U	--	0.36	U	0.36	U	--
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg	0.42									

Table C-5 5B Field Duplicates

Location				SL-262-SA5B		SL-262-SA5B		RPD	SL-288-SA5B		SL-288-SA5B		RPD	
Sample Name:				DUP06-SA5B-QC-121510		SL-262-SA5B-SS-0.0-0.5			DUP03-SA5B-QC-121010		SL-288-SA5B-SS-0.0-0.5			
Sample Date				12/15/2010		12/15/2010			12/10/2010		12/10/2010			
Start Depth:				0		0			0		0			
End Depth:				0.5		0.5		0.5		0.5				
Sample Type:				FD		N		FD		N				
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	3,3'-Dichlorobenzidine	91-94-1	8270C	ug/kg	350	U	350	U	--	350	U	350	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	530	U	530	U	--	530	U	520	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	530	U	530	U	--	530	U	520	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.8	U	1.7	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.8	U	1.7	U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	530	U	530	U	--	530	U	520	U	--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	0.90	J	0.51	J	55.32	1.8	UJ	0.84	J	200.00
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3500	U	3500	R	--	3500	U	3500	U	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg										
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg	8.4	J	3.9	J	73.17	1.8	UJ	1.0	J	200.00
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg										
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	9.9	J	5.0	J	65.77	1.8	UJ	1.5	J	200.00
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg										
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	14	J	5.9	J	81.41	1.0	J	4.1	J	-121.57
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg										
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	7.5	J	4.5	J	50.00	1.8	UJ	1.1	J	200.00
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg										
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	5.0	J	2.6	J	63.16	1.8	UJ	1.6	J	200.00
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	530	U	530	U	--	530	U	520	U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	530	U	530	U	--	530	U	520	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg						27	J	350	UJ	200.00
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg	12	J	13	J	-8.00					
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg										
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg	19	U	19	U	--	19	U	19	U	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg										
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg	14		8.7		46.70	0.95	J	2.6	J	-92.96
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg	2.1		1.3	J	47.06	1.8	U	1.7	U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg		U	180	U	--	180	U	170	U	--
Semivolatiles	Diethylphtalate	84-66-2	8270C	ug/kg										
Semivolatiles	Diethylphtalate	84-66-2	8270C SIM	ug/kg	19	U	19	U	--	19	U	19	U	--
Semivolatiles	Dimethylphtalate	131-11-3	8270C	ug/kg										
Semivolatiles	Dimethylphtalate	131-11-3	8270C SIM	ug/kg	19	U	19	U	--	19	U	19	U	--
Semivolatiles	Di-n-Butylphtalate	84-74-2	8270C	ug/kg						180	U	170	U	--
Semivolatiles	Di-n-Butylphtalate	84-74-2	8270C SIM	ug/kg	19	U	19	U	--					
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg										
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg	7.0	J	19	UJ	200.00	19	U	19	U	--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg										
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg	7.1	J	2.8	J	86.87	1.6	J	2.8	J	-54.55
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.8	U	1.7	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	530	U	530	U	--	530	U	520	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg										
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	4.9	J	2.6	J	61.33	1.8	UJ	0.99	J	200.00
Semivolatiles	Isoophorone	78-59-1	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	2.8	J	1.5	J	60.47	0.71	J	1.7	UJ	200.00
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg										
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.8	U	1.7	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	180	U	180	UJ	--	180	U	170	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	530	U	530	U	--	530	U	520	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg										
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg	7.4	J	3.4	J	74.07	0.84	J	1.6	J	-62.30
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg										
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg	9.1	J	4.5	J	67.65	1.3	J	2.2	J	-51.43
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg										
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	ug/kg										
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg										
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg										
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg										
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg										
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg										
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg										
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg										
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg										
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg										
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg										
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg										
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg										
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg										
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg										
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg										
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg										
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg										
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg										
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg										
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg										
Volatiles	2-Butanone	78-93-3	8260B	ug/kg										
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg										
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg										
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg										
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg										
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg										
Volatiles	Acetone	67-64-1	8260B	ug/kg										
Volatiles	Benzene	71-43-2	8260B	ug/kg										
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg										
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg										
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg										
Volatiles	Bromoform	75-25-2	8260B	ug/kg										
Volatiles	Bromomethane	74-83-9	8260B	ug/kg										
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg										
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg										
Volatiles	Chloroethane	75-00-3	8260B	ug/kg										
Volatiles	Chloroform													

Notes:

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were nondetect or only one sample
200% - When one result is nondetect a 200% RPD is given and sample results are qualified as estimated
Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

Table C-5 5B Field Duplicates

				Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-294-SA5B DUP19-SA5B-QC-012011 4 5 FD	SL-294-SA5B SL-294-SA5B-SB-4.0-5.0 01/20/2011 4 5 N	RPD	SL-329-SA5B DUP23-SA5B-QC-021511 4 5 FD	SL-329-SA5B SL-329-SA5B-SB-4.0-5.0 02/15/2011 4 5 N	RPD
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit						
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	28700		21300		13600	12100
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.189	J	0.265	J	0.834	0.106
Inorganic	Arsenic	7440-38-2	6020	mg/kg	5.75	J	5.17	J	10.62	5.97
Inorganic	Barium	7440-39-3	6020	mg/kg	111	J	81.4	J	30.77	135
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.642		0.643		0.614	J
Inorganic	Boron	7440-42-8	6010B	mg/kg	4.24	J	6.19		-37.39	5.40
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.203		0.250		-20.75	2.28
Inorganic	Calcium	7440-70-2	6010B	mg/kg	11700		8900		27.18	2200
Inorganic	Chromium	7440-47-3	6020	mg/kg	26.9		25.1		6.92	16.5
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.36	J	0.39	J	-8.00	0.42
Inorganic	Cobalt	7440-48-4	6020	mg/kg	6.03	J	6.85	J	-12.73	5.60
Inorganic	Copper	7440-50-8	6020	mg/kg	13.2	J	12.0	J	9.52	8.71
Inorganic	Cyanide	57-12-5	9012B	mg/kg	0.56	U	0.53	U	--	0.53
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	6.0		4.0		40.00	3.3
Inorganic	Iron	7439-89-6	6010B	mg/kg	26500		25800		2.68	17900
Inorganic	Lead	7439-92-1	6020	mg/kg	6.77	J	7.88	J	-15.15	35.4
Inorganic	Lithium	7439-93-2	6010B	mg/kg	24.3		24.0		1.24	22.0
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	6510		5760		12.22	3090
Inorganic	Manganese	7439-96-5	6010B	mg/kg	494		297		49.81	311
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.114	UJ	0.110	UJ	--	0.0049
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	1.52	J	0.630	J	82.79	0.467
Inorganic	Nickel	7440-02-0	6020	mg/kg	14.2	J	13.9	J	2.14	11.5
Inorganic	Nitrate	14797-55-8	300.0	mg/kg	2.8	J	7.3	J	-89.11	6.5
Inorganic	Percent Moisture	MOIST	160.3M	%	14.8		10.9		30.35	8.3
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	35.2	U	33.7	U	--	32.7
Inorganic	Perchlorate	14797-73-0	6850	ug/kg						5.5
Inorganic	pH		9045M	pH unit	8.42		8.53		-1.30	7.07
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	260		391		-40.25	363
Inorganic	Potassium	7440-09-7	6010B	mg/kg	2910	J	4140	J	-34.89	3110
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.0867	J	0.120	J	-32.22	0.148
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0408	J	0.0348	J	15.87	0.0605
Inorganic	Sodium	7440-23-5	6010B	mg/kg	444		502		-12.26	134
Inorganic	Strontium	7440-24-6	6010B	mg/kg	34.1		29.5		14.47	16.9
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.289		0.290		-0.35	0.317
Inorganic	Tin	7440-31-5	6010B	mg/kg	11.6	U	11.1	U	--	10.8
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1340		1230		8.56	994
Inorganic	Vanadium	7440-62-2	6020	mg/kg	44.3	J	45.0	J	-1.57	35.2
Inorganic	Zinc	7440-66-6	6020	mg/kg	60.3		61.9		-2.62	298
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	4.56	J	3.58	J	24.08	1.51
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg	140	U	130	U	--	130
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg	140	U	130	U	--	130
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg	280	U	270	U	--	260
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg	140	U	130	U	--	130
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg	280	U	270	U	--	260
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg	140	U	130	U	--	130
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg	140	U	130	U	--	130
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg	140	U	130	U	--	130
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg	590	U	560	U	--	550
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg	140	U	130	U	--	130
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg	140	U	130	U	--	130
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg	140	U	130	U	--	130
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	15	U	14	U	--	14
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg	590	U	560	U	--	550
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	15	U	14	U	--	14
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg	1800	U	1700	U	--	1600
Misc. Organics	HMX	2691-41-0	8330A	ug/kg	350	U	340	U	--	330
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg	140	U	130	U	--	130
Misc. Organics	Methanol	67-56-1	8015B	ug/kg	590	U	560	U	--	550
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg	4.1	U	3.9	U	--	3.8
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg	140	U	130	U	--	130
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg	2800	U	2700	U	--	2600
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg	4.1	U	3.9	U	--	3.8
Misc. Organics	PETN	78-11-5	8330A	ug/kg	2800	U	2700	U	--	2600
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	15	U	14	U	--	14
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg	4.1	U	3.9	U	--	3.8
Misc. Organics	RDX	121-82-4	8330A	ug/kg	140	U	130	U	--	130
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg	140	U	130	U	--	130
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	5.87	UJ	16.9	J	200.00	51.4
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	5.87	UJ	5.61	UJ	--	3.54
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	5.87	UJ	5.61	UJ	--	0.327
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	5.87	U	5.61	U	--	0.151
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	5.87	U	5.61	U	--	0.249
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	5.87	UJ	0.464	J	200.00	1.10
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	5.87	U	5.61	U	--	0.215
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	5.87	UJ	0.348	J	200.00	0.509
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	5.87	UJ	5.61	UJ	--	5.45
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	5.87	U	5.61	U	--	0.170
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	5.87	U	5.61	U	--	0.187
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	5.87	U	5.61	U	--	0.310
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	5.87	UJ	5.61	UJ	--	5.45
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	1.17	U	1.12	U	--	0.0436
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	1.17	U	1.12	U	--	0.109
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	2.0	U	1.9	U	--	1.9
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	2.0	U	1.9	U	--	1.9
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	2.0	U	1.9	U	--	1.9
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	2.0	U	1.9	U	--	1.9
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	2.0	U	1.9	U	--	1.9
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	0.66	J	0.72	J	-8.70	1.9
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	2.0	U	1.9	U	--	1.9
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	2.0	U	1.9	U	--	1.9
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	2.0	U	1.9	U	--	1.9
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.9	U	3.7	U	--	3.6
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.9	U	3.7	U	--	3.6
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	3.9	U	3.7	U	--	3.6
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	3.99	J	212	J	-192.61	754
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	11.7	UJ	3.05	J	200.00	9.69
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg						
Pesticides	2,4 DB	94-82-6	8151A	ug/kg						
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg						
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg						
Pesticides	2,4-D	94-75-7	8151A	ug/kg						
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg						
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg						
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg						
Pesticides	Aldrin	309-00-2	8081A	ug/kg						
Pesticides	Alpha-BHC	319-84-6	8081A	ug/kg						
Pesticides	Beta-BHC	319-85-7	8081A	ug/kg						
Pesticides	Chlordane	57-74-9	8081A	ug/kg						
Pesticides	Delta-BHC	319-86-8	8081A	ug/kg						
Pesticides	Dicamba	1918-00-9	8151A	ug/kg						
Pesticides	Dichlorprop	120-36-5	8151A	ug/kg						
Pesticides	Dieldrin	60-57-1	8081A	ug/kg						
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	ug/kg						
Pesticides	Endosulfan I	959-98-8	8081A	ug/kg						
Pesticides	Endosulfan II	33213-65-9	8081A	ug/kg						
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	ug/kg						
Pesticides	Endrin	72-20-8	8081A	ug/kg						
Pesticides	Endrin Aldehyde	7421-93-4	8081A	ug/kg						
Pesticides	Endrin Ketone	53494-70-5	8081A	ug/kg						
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	ug/kg						
Pesticides	Heptachlor	76-44-8	8081A	ug/kg						
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	ug/kg						
Pesticides	MCPA	94-74-6	8151A	ug/kg						
Pesticides	MCPP	93-65-2	8151A	ug/kg						
Pesticides	Methoxychlor	72-43-5	8081A	ug/kg						
Pesticides	Mirex	2385-85-5	8081A	ug/kg						
Pesticides	Toxaphene	8001-35-2	8081A	ug/kg						
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg	200	U	190	U	--	180
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	ug/kg	200	U	190	U	--	180
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg	200	U	190	U	--	180
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	ug/kg</						

Table C-5 5B Field Duplicates

				Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-294-SA5B DUP19-SA5B-QC-012011 01/20/2011 4 5 FD		SL-294-SA5B SL-294-SA5B-SB-4.0-5.0 01/20/2011 4 5 N		RPD	SL-329-SA5B DUP23-SA5B-QC-021511 02/15/2011 4 5 FD		SL-329-SA5B SL-329-SA5B-SB-4.0-5.0 02/15/2011 4 5 N		RPD
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	3,3'-Dichlorobenzidine	91-94-1	8270C	ug/kg	390	UJ	370	UJ	--	360	U	360	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	590	U	560	U	--	550	U	550	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	590	U	560	U	--	550	U	550	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	2.0	U	1.9	U	--	1.8	U	1.8	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	2.0	U	1.9	U	--	1.8	U	1.8	U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	590	U	560	U	--	550	U	550	U	--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	2.0	U	1.9	U	--	1.8	U	1.8	U	--
Semivolatiles	Benzdine	92-87-5	8270C	ug/kg	3900	U	3700	U	--	3600	U	3600	UJ	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg										
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kq	2.0	UJ	1.2	J	200.00	1.8	U	1.8	U	--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg										
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	2.0	UJ	1.1	J	200.00	0.75	J	1.8	UJ	200.00
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg										
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	2.0	UJ	1.5	J	200.00	1.8	U	1.8	U	--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg										
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	2.0	UJ	1.1	J	200.00	1.8	U	1.8	U	--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg										
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	2.0	U	1.9	U	--	1.8	U	1.8	U	--
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	590	U	560	U	--	550	U	550	U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	590	U	560	U	--	550	U	550	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg			58	J						
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg	7.9	J				20	U	20	U	--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg										
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg	21	U	20	U	--	6.9	J	20	UJ	200.00
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg										
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg	0.71	J	2.1	J	-98.93	0.67	J	1.8	UJ	200.00
Semivolatiles	Dibenzof(a,h)anthracene	53-70-3	8270C SIM	ug/kg	2.0	U	1.9	U	--	1.8	U	1.8	U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg										
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg	21	U	20	U	--	20	U	20	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg										
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg	21	U	20	U	--	20	U	20	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg										
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	21	U	20	U	--	20	U	20	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg										
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg	21	U	20	U	--	9.7	J	20	UJ	200.00
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg										
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg	2.0	UJ	2.2	J	200.00	1.8	U	1.8	U	--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	2.0	U	1.9	U	--	1.8	U	1.8	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	590	U	560	U	--	550	U	550	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg										
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	2.0	U	1.9	U	--	1.8	U	1.8	U	--
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	0.94	J	1.9	UJ	200.00	1.8	U	1.8	U	--
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg	96.8		73.2		27.76	360	UJ	36.4	UJ	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	2.0	U	1.9	U	--	1.8	U	1.8	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	590	U	560	U	--	550	U	550	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg										
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg	2.0	U	1.9	U	--	1.8	U	1.8	U	--
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	200	U	190	U	--	180	U	180	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg										
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg	2.0	UJ	2.1	J	200.00	1.8	U	1.8	U	--
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg	4.0	U	3.7	U	--	3.9	UJ	4.1	UJ	--
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg	15	U	16	U	--	15	U	17	U	--
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	2-Butanone	78-93-3	8260B	ug/kg	8.0	U	7.5	U	--	7.8	U	8.1	U	--
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg	8.0	U	7.5	U	--	7.8	U	8.1	U	--
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg	4.0	U	3.7	U	--	3.9	U	4.1	U	--
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg	8.0	U	7.5	U	--	7.8	U	8.1	U	--
Volatiles	Acetone	67-64-1	8260B	ug/kg	8.0									

Table C-5 5B Field Duplicates

Location					SL-333-SA5B	SL-333-SA5B	RPD
Sample Name:					DUP24-SA5B-QC-021011	SL-333-SA5B-SS-0-0-0.5	
Sample Date:					02/10/2011	02/10/2011	
Start Depth:					0	0	
End Depth:					0.5	0.5	
Sample Type:					FD	N	
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit			
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	5740	5420	5.73
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.125 J	0.115 J	8.33
Inorganic	Arsenic	7440-38-2	6020	mg/kg	2.04 J	1.38 J	38.60
Inorganic	Barium	7440-39-3	6020	mg/kg	64.9	62.4	3.93
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.238	0.187	24.00
Inorganic	Boron	7440-42-8	6010B	mg/kg	1.44 J	1.48 J	-2.74
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.174	0.107	47.69
Inorganic	Calcium	7440-70-2	6010B	mg/kg	2740	2600	5.24
Inorganic	Chromium	7440-47-3	6020	mg/kg	9.70 J	7.34 J	27.70
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.29 J	1.1 UJ	200.00
Inorganic	Cobalt	7440-48-4	6020	mg/kg	3.70 J	4.41 J	-17.51
Inorganic	Copper	7440-50-8	6020	mg/kg	10.3 J	8.73 J	16.50
Inorganic	Cyanide	57-12-5	9012B	mg/kg			
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	1.1 U	1.1 U	--
Inorganic	Iron	7439-89-6	6010B	mg/kg	14900	14000	6.23
Inorganic	Lead	7439-92-1	6020	mg/kg	3.70 J	2.90 J	24.24
Inorganic	Lithium	7439-93-2	6010B	mg/kg	7.8	6.6	16.67
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	2530	2260	11.27
Inorganic	Manganese	7439-96-5	6010B	mg/kg	148 J	132 J	11.43
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.104 UJ	0.0125 J	200.00
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.279	0.199	33.47
Inorganic	Nickel	7440-02-0	6020	mg/kg	5.64 J	4.86 J	14.86
Inorganic	Nitrate	14797-55-8	300.0	mg/kg			
Inorganic	Percent Moisture	MOIST	160.3M	%	6.8	5.8	15.87
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	32.2 U	31.8 U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg			
Inorganic	pH		9045M	pH unit	6.97	8.64	-21.40
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	459	423	8.16
Inorganic	Potassium	7440-09-7	6010B	mg/kg	1600 J	1480 J	7.79
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.0689 J	0.0643 J	6.91
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0230 J	0.0162 J	34.69
Inorganic	Sodium	7440-23-5	6010B	mg/kg	249	226	9.68
Inorganic	Strontium	7440-24-6	6010B	mg/kg	31.4	19.7	45.79
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.104 U	0.158	200.00
Inorganic	Tin	7440-31-5	6010B	mg/kg	10.5 U	10.3 U	--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	698	654	6.51
Inorganic	Vanadium	7440-62-2	6020	mg/kg	34.8 J	32.7 J	6.22
Inorganic	Zinc	7440-66-6	6020	mg/kg	91.4 J	61.1 J	39.74
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	5.26 U	5.15 U	--
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg			
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg			
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg			
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg			
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg			
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg			
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg			
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg			
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg			
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg			
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg			
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg			
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg			
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg			
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg			
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg			
Misc. Organics	HMX	2691-41-0	8330A	ug/kg			
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg			
Misc. Organics	Methanol	67-56-1	8015B	ug/kg			
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg			
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg			
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg			
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg			
Misc. Organics	PETN	78-11-5	8330A	ug/kg			
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg			
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg			
Misc. Organics	RDX	121-82-4	8330A	ug/kg			
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg			
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	321	324 J	-0.93
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	52.9	54.1	-2.24
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	4.71 J	4.49 J	4.78
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	4.11 J	4.08 J	0.73
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	3.86 J	3.25 J	17.16
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	8.91	8.49	4.83
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	3.05 J	3.14 J	-2.91
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	8.24	7.84	4.98
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	1.30 J	0.924 J	33.81
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	2.04 J	1.76 J	14.74
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	0.397 J	0.311 J	24.29
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	2.69 J	2.48 J	8.12
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	1.41 J	1.02 J	32.10
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	0.170 J	0.113 J	40.28
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	0.142 J	0.106 J	29.03
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.8 U	1.8 U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.8 U	1.8 U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.8 U	1.8 U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.8 U	1.8 U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.8 U	1.8 U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	2.0 J	1.8 UJ	200.00
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	1.2 J	0.43 J	94.48
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.8 U	1.8 U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.8 U	1.8 U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.5 UJ	3.5 UJ	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.5 UJ	3.5 UJ	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	8.2 J	1.6 J	134.69
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	3810	3900	-2.33
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	99.4	98.5	0.91
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg	9.6 U	9.6 U	--
Pesticides	2,4 DB	94-82-6	8151A	ug/kg	1.8 UJ	2.0 J	200.00
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg	0.18 U	0.18 U	--
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg	0.18 U	0.18 U	--
Pesticides	2,4-D	94-75-7	8151A	ug/kg	3.8 U	3.8 U	--
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg	0.36 U	0.36 U	--
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg	0.36 U	0.36 U	--
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg	0.46 U	0.36 U	--
Pesticides	Aldrin	309-00-2	8081A	ug/kg	0.18 U	0.18 U	--
Pesticides	Alpha-BHC	319-84-6	8081A	ug/kg	0.18 U	0.18 U	--
Pesticides	Beta-BHC	319-85-7	8081A	ug/kg	0.18 U	0.18 U	--
Pesticides	Chlordane	57-74-9	8081A	ug/kg	3.6 U	3.6 U	--
Pesticides	Delta-BHC	319-86-8	8081A	ug/kg	0.18 U	0.18 U	--
Pesticides	Dicamba	1918-00-9	8151A	ug/kg	1.3 U	1.3 U	--
Pesticides	Dichloroprop	120-36-5	8151A	ug/kg	1.8 U	1.8 U	--
Pesticides	Dieldrin	60-57-1	8081A	ug/kg	0.39 U	0.38 U	--
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	ug/kg	2.6 U	2.5 U	--
Pesticides	Endosulfan I	959-98-8	8081A	ug/kg	0.18 U	0.18 U	--
Pesticides	Endosulfan II	33213-65-9	8081A	ug/kg	0.36 U	0.36 U	--
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	ug/kg	0.36 U	0.36 U	--
Pesticides	Endrin	72-20-8	8081A	ug/kg	0.36 U	0.36 U	--
Pesticides	Endrin Aldehyde	7421-93-4	8081A	ug/kg	0.36 U	0.36 U	--
Pesticides	Endrin Ketone	53494-70-5	8081A	ug/kg	0.36 U	0.36 U	--
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	ug/kg	0.18 U	0.18 U	--
Pesticides	Heptachlor	76-44-8	8081A	ug/kg	0.18 U	0.18 U	--
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	ug/kg	0.18 U	0.18 U	--
Pesticides	MCPA	94-74-6	8151A	ug/kg	270 UJ	130 J	200.00
Pesticides	MCPP	93-65-2	8151A	ug/kg	270 U	270 U	--
Pesticides	Methoxychlor	72-43-5	8081A	ug/kg	1.8 U	1.8 U	--
Pesticides	Mirex	2385-85-5	8081A	ug/kg	0.36 U	0.39 U	--
Pesticides	Toxaphene	8001-35-2	8081A	ug/kg	7.1 U	7.0 U	--
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg	180 U	170 U	--
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	ug/kg	180 U	170 U	--
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg	180 U	170 U	--
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	ug/kg	180 U	170 U	--
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	ug/kg	180 U	170 U	--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	ug/kg	1.8 U	1.8 U	--
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	ug/kg	180 U	170 U	--
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	ug/kg	180 U	170 U	--
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	ug/kg	180 U	170 U	--
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	ug/kg	180 U	170 U	--
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	ug/kg	1100 U	1000 U	--
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	ug/kg	180 U	170 U	--
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	ug/kg	180 U	170 U	--
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	ug/kg	180 U	170 U	--
Semivolatiles	2-Chlorophenol	95-57-8	8270C	ug/kg	180 U	170 U	--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C	ug/kg			
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	ug/kg	1.8 U	1.8 U	--
Semivolatiles	2-Methylphenol	95-48-7	8270C	ug/kg	180 U	170 U	--

Table C-5 5B Field Duplicates

				Location Sample Name: Sample Date Start Depth: End Depth: Sample Type:	SL-333-SA5B DUP24-SA5B-QC-021011 02/10/2011 0 0.5 FD	SL-333-SA5B SL-333-SA5B-SS-0.0-0.5 02/10/2011 0 0.5 N	RPD
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	180 U	170 U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	180 U	170 U	--
Semivolatiles	3,3'-Dichlorobenzidine	91-94-1	8270C	ug/kg	360 U	350 U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	180 U	170 U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	180 U	170 U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	540 U	520 U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	180 U	170 U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	180 U	170 U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	180 U	170 U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	180 U	170 U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	180 U	170 U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	180 U	170 U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	540 U	520 U	--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	1.8 U	1.8 U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	1.8 U	1.8 U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	540 U	520 U	--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	1.8 U	1.8 U	--
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3600 U	3500 U	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg			
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg	1.0 J	0.89 J	11.64
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg			
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	0.87 J	1.1 J	-23.35
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg	21 J		
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg		1.9 J	
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg			
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	1.8 UJ	0.83 J	200.00
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg			
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	0.72 J	0.89 J	-21.12
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	540 U	520 U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	540 U	520 U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	180 U	170 U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	180 U	170 U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	180 U	170 U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg			
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg	19 U	19 U	--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg			
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg	19 U	19 U	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	180 U	170 U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg			
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg	1.5 J	1.3 J	14.29
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg	1.8 U	1.8 U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	180 U	170 U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg			
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg	19 U	19 U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg			
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg	19 U	19 U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg			
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	6.5 J	19 UJ	200.00
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg			
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg	7.2 J	19 UJ	200.00
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg			
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg	1.1 J	1.1 J	0.00
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	1.8 U	1.8 U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	180 U	170 U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	180 U	170 U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	540 U	520 U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	180 U	170 U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg			
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	1.8 U	1.8 U	--
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	180 U	170 U	--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	1.8 U	1.8 U	--
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	180 U	170 U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg			
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	1.8 U	1.8 U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	180 U	170 U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	180 U	170 U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	540 U	520 U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg			
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg	1.8 U	1.8 U	--
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	180 U	170 U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg			
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg	1.2 J	1.3 J	-8.00
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg			
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	ug/kg			
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg			
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg			
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg			
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg			
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg			
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg			
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg			
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg			
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg			
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg			
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg			
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg			
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg			
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg			
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg			
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg			
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg			
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg			
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg			
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg			
Volatiles	2-Butanone	78-93-3	8260B	ug/kg			
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg			
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg			
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg			
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg			
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg			
Volatiles	Acetone	67-64-1	8260B	ug/kg			
Volatiles	Benzene	71-43-2	8260B	ug/kg			
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg			
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg			
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg			
Volatiles	Bromoform	75-25-2	8260B	ug/kg			
Volatiles	Bromomethane	74-83-9	8260B	ug/kg			
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg			
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg			
Volatiles	Chloroethane	75-00-3	8260B	ug/kg			
Volatiles	Chloroform	67-66-3	8260B	ug/kg			
Volatiles	Chloromethane	74-87-3	8260B	ug/kg			
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	ug/kg			
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	ug/kg			
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	ug/kg			
Volatiles	Dibromochloromethane	124-48-1	8260B	ug/kg			
Volatiles	Dibromomethane	74-95-3	8260B	ug/kg			
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	ug/kg			
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	mg/kg			
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	mg/kg			
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	mg/kg			
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	mg/kg			
Volatiles	Ethylbenzene	100-41-4	8260B	ug/kg			
Volatiles	Freon 113	76-13-1	8260B	ug/kg			
Volatiles	Freon 113a	75-88-7	8260B	ug/kg			
Volatiles	GRO (C5-C12)	GROC5C12	8015M	mg/kg			
Volatiles	Hexachlorobutadiene	87-68-3	8260B	ug/kg			
Volatiles	Isopropylbenzene	98-82-8	8260B	ug/kg			
Volatiles	Isopropyltoluene	99-87-6	8260B	ug/kg			
Volatiles	m,p-Xylene	179601-23-1	8260B	ug/kg			
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	ug/kg			
Volatiles	Methylene chloride	75-09-2	8260B	ug/kg			
Volatiles	N-Butylbenzene	104-51-8	8260B	ug/kg			
Volatiles	N-Propylbenzene	103-65-1	8260B	ug/kg			
Volatiles	o-Xylene	95-47-6	8260B	ug/kg			
Volatiles	sec-Butylbenzene	135-98-8	8260B	ug/kg			
Volatiles	Styrene	100-42-5	8260B	ug/kg			
Volatiles	tert-Butylbenzene	98-06-6	8260B	ug/kg			
Volatiles	Tetrachloroethene	127-18-4	8260B	ug/kg			
Volatiles	Toluene	108-88-3	8260B	ug/kg			
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	ug/kg			
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	ug/kg			
Volatiles	Trichloroethene	79-01-6	8260B	ug/kg			
Volatiles	Trichlorofluoromethane	75-69-4	8260B	ug/kg			
Volatiles	Vinyl Chloride	75-01-4	8260B	ug/kg			

Notes:
ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were nondetect or only one sampl
200* - When one result is nondetect a 200% RPD is given and sample results are qualified as estimate
Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

Table C-6 Summary of Data Completeness Following Data Validation

Method_Group	Analytic Method	Number of Analyte Dectections without Qualifiers	Number of Estimated Results	Number of Rejected Results	Number of Non-Dectected Results	Number of Estimated Non-Dectected Results	Total Analytes Detected and Non-Detected	Percent of Analyte Results Judged Valid Versus Total Analyte Results Collected
Dioxins	1613B	1203	2769	0	4427	84	8483	100.00%
Formaldehyde	8315A	34	9	0	119	0	162	100.00%
Herbicides	8151A	163	136	186	1689	26	2200	91.55%
Inorganics - Cyanide	9012B	0	0	0	162	0	162	100.00%
Inorganics - Fluoride	300	338	282	0	30	11	661	100.00%
Inorganics - Hexavalanent Chromium	7199	32	299	0	163	5	499	100.00%
Inorganics - Mercury	7471A	21	287	0	177	14	499	100.00%
Inorganics - Metals	6010B	4181	2023	0	776	6	6986	100.00%
Inorganics - Metals	6020	2856	4796	15	90	227	7984	99.81%
Inorganics - Percent Moisture	160.3M	498	5	0	31	0	534	100.00%
Inorganics - Perchlorate	314	0	7	0	487	5	499	100.00%
Inorganics - Perchlorate	6850	0	0	0	62	0	62	100.00%
Inorganics - pH	9045M	499	0	0	0	0	499	100.00%
NDMA	1625C	54	36	0	70	2	162	100.00%
Organics - Alcohols, triphenyls, glycols	8015B	5	50	0	913	4	972	100.00%
Organics – Energetics	8330A	1	3	0	2907	5	2916	100.00%
Organics - Total Pertroleum Hydrocarbons	8015M	222	79	1	1048	74	1424	99.93%
Oxidation Reduction Potential	ASTM D1498	499	0	0	0	0	499	100.00%
PCBs	8082	214	422	0	4436	916	5988	100.00%
Pesticides	8081A	47	137	124	4076	236	4620	97.32%
Semivolatiles	8270C	47	402	58	23391	215	24113	99.76%
Semivolatiles - SIM	8270C SIM	1425	1522	0	8773	93	11813	100.00%
Volatiles	8260B	60	125	0	17374	330	17889	100.00%
Volatiles - SIM	8260B SIM	0	2	0	265	0	267	100.00%

Appendix C

Data Validation Reports

(On CD)

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	SL-003-SA5B-SS-0.0-0.5	DE031	SO	2010-12-09	FIELD
5B	SL-004-SA5B-SS-0.0-0.5	DE031	SO	2010-12-09	FIELD
5B	SL-005-SA5B-SS-0.0-0.5	DE031	SO	2010-12-09	FIELD
5B	SL-026-SA5B-SS-0.0-0.5	DE031	SO	2010-12-08	FIELD
5B	SL-032-SA5B-SS-0.0-0.5	DE031	SO	2010-12-08	FIELD
5B	SL-038-SA5B-SS-0.0-0.5	DE031	SO	2010-12-08	FIELD
5B	SL-039-SA5B-SS-0.0-0.5	DE031	SO	2010-12-08	FIELD
5B	SL-230-SA5B-SS-0.0-0.5	DE031	SO	2010-12-09	FIELD
5B	SL-231-SA5B-SS-0.0-0.5	DE031	SO	2010-12-09	FIELD
5B	SL-280-SA5B-SS-0.0-0.5	DE031	SO	2010-12-08	FIELD
5B	SL-281-SA5B-SS-0.0-0.5	DE031	SO	2010-12-08	FIELD
5B	SL-282-SA5B-SS-0.0-0.5	DE031	SO	2010-12-08	FIELD
5B	SL-283-SA5B-SS-0.0-0.5	DE031	SO	2010-12-08	FIELD
5B	SL-292-SA5B-SS-0.0-0.5	DE031	SO	2010-12-09	FIELD
5B	SL-293-SA5B-SS-0.0-0.5	DE031	SO	2010-12-09	FIELD
5B	SL-295-SA5B-SS-0.0-0.5	DE031	SO	2010-12-08	FIELD
5B	SL-296-SA5B-SS-0.0-0.5	DE031	SO	2010-12-08	FIELD
5B	SL-297-SA5B-SS-0.0-0.5	DE031	SO	2010-12-08	FIELD
5B	SL-308-SA5B-SS-0.0-0.5	DE031	SO	2010-12-08	FIELD
5B	DUP01-SA5B-QC-120810	DE032	SO	2010-12-08	FIELD
5B	DUP02-SA5B-QC-120910	DE032	SO	2010-12-09	FIELD
5B	SL-001-SA5B-SS-0.0-0.5	DE032	SO	2010-12-09	FIELD
5B	SL-002-SA5B-SS-0.0-0.5	DE032	SO	2010-12-09	FIELD
5B	SL-006-SA5B-SS-0.0-0.5	DE032	SO	2010-12-09	FIELD
5B	SL-007-SA5B-SS-0.0-0.5	DE032	SO	2010-12-09	FIELD
5B	SL-010-SA5B-SS-0.0-0.5	DE032	SO	2010-12-09	FIELD
5B	SL-011-SA5B-SS-0.0-0.5	DE032	SO	2010-12-09	FIELD
5B	SL-012-SA5B-SS-0.0-0.5	DE032	SO	2010-12-09	FIELD
5B	SL-013-SA5B-SS-0.0-0.5	DE032	SO	2010-12-09	FIELD
5B	SL-014-SA5B-SS-0.0-0.5	DE032	SO	2010-12-09	FIELD
5B	SL-018-SA5B-SS-0.0-0.5	DE032	SO	2010-12-09	FIELD
5B	SL-020-SA5B-SS-0.0-0.5	DE032	SO	2010-12-09	FIELD
5B	SL-022-SA5B-SS-0.0-0.5	DE032	SO	2010-12-08	FIELD
5B	SL-031-SA5B-SS-0.0-0.5	DE032	SO	2010-12-08	FIELD
5B	SL-291-SA5B-SS-0.0-0.5	DE032	SO	2010-12-09	FIELD
5B	SL-294-SA5B-SS-0.0-0.5	DE032	SO	2010-12-08	FIELD
5B	SL-306-SA5B-SS-0.0-0.5	DE032	SO	2010-12-09	FIELD
5B	SL-307-SA5B-SS-0.0-0.5	DE032	SO	2010-12-08	FIELD
5B	SL-017-SA5B-SS-0.0-0.5	DE033	SO	2010-12-08	FIELD
5B	SL-029-SA5B-SS-0.0-0.5	DE033	SO	2010-12-08	FIELD
5B	SL-034-SA5B-SS-0.0-0.5	DE033	SO	2010-12-08	FIELD
5B	SL-035-SA5B-SS-0.0-0.5	DE033	SO	2010-12-08	FIELD
5B	SL-036-SA5B-SS-0.0-0.5	DE033	SO	2010-12-08	FIELD
	TB-120810	DE033	WQ	2010-12-08	FIELD
	TB-120910	DE033	WQ	2010-12-09	FIELD
5B	SL-008-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD
5B	SL-009-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD
5B	SL-048-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD
5B	SL-051-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD
5B	SL-059-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD
5B	SL-061-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD
5B	SL-062-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD
5B	SL-064-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD
5B	SL-065-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	SL-067-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD
5B	SL-070-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD
5B	SL-228-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD
5B	SL-229-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD
5B	SL-232-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD
5B	SL-233-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD
5B	SL-299-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD
5B	SL-300-SA5B-SS-0.0-0.5	DE034	SO	2010-12-10	FIELD
5B	DUP03-SA5B-QC-121010	DE035	SO	2010-12-10	FIELD
5B	SL-057-SA5B-SS-0.0-0.5	DE035	SO	2010-12-10	FIELD
5B	SL-234-SA5B-SS-0.0-0.5	DE035	SO	2010-12-10	FIELD
5B	SL-235-SA5B-SS-0.0-0.5	DE035	SO	2010-12-10	FIELD
5B	SL-287-SA5B-SS-0.0-0.5	DE035	SO	2010-12-10	FIELD
5B	SL-288-SA5B-SS-0.0-0.5	DE035	SO	2010-12-10	FIELD
5B	SL-290-SA5B-SS-0.0-0.5	DE035	SO	2010-12-10	FIELD
5B	DUP04-SA5B-QC-121310	DE036	SO	2010-12-13	FIELD
5B	SL-071-SA5B-SS-0.0-0.5	DE036	SO	2010-12-13	FIELD
5B	SL-072-SA5B-SS-0.0-0.5	DE036	SO	2010-12-13	FIELD
5B	SL-073-SA5B-SS-0.0-0.5	DE036	SO	2010-12-13	FIELD
5B	SL-074-SA5B-SS-0.0-0.5	DE036	SO	2010-12-13	FIELD
5B	SL-076-SA5B-SS-0.0-0.5	DE036	SO	2010-12-13	FIELD
5B	SL-078-SA5B-SS-0.0-0.5	DE036	SO	2010-12-13	FIELD
5B	SL-083-SA5B-SS-0.0-0.5	DE036	SO	2010-12-13	FIELD
5B	SL-084-SA5B-SS-0.0-0.5	DE036	SO	2010-12-13	FIELD
5B	SL-086-SA5B-SS-0.0-0.5	DE036	SO	2010-12-13	FIELD
5B	SL-089-SA5B-SS-0.0-0.5	DE036	SO	2010-12-13	FIELD
5B	SL-092-SA5B-SS-0.0-0.5	DE036	SO	2010-12-13	FIELD
5B	SL-103-SA5B-SS-0.0-0.5	DE036	SO	2010-12-13	FIELD
5B	SL-139-SA5B-SS-0.0-0.5	DE036	SO	2010-12-13	FIELD
5B	SL-236-SA5B-SS-0.0-0.5	DE036	SO	2010-12-13	FIELD
5B	SL-301-SA5B-SS-0.0-0.5	DE036	SO	2010-12-13	FIELD
5B	EB15-SA5B-121310	DE037	WQ	2010-12-13	FIELD
5B	SL-075-SA5B-SS-0.0-0.5	DE037	SO	2010-12-13	FIELD
5B	SL-077-SA5B-SS-0.0-0.5	DE037	SO	2010-12-13	FIELD
5B	SL-085-SA5B-SS-0.0-0.5	DE037	SO	2010-12-13	FIELD
5B	SL-087-SA5B-SS-0.0-0.5	DE037	SO	2010-12-13	FIELD
5B	SL-091-SA5B-SS-0.0-0.5	DE037	SO	2010-12-13	FIELD
5B	SL-095-SA5B-SS-0.0-0.5	DE037	SO	2010-12-13	FIELD
5B	DUP05-SA5B-QC-121410	DE038	SO	2010-12-14	FIELD
5B	SL-054-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	SL-098-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	SL-105-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	SL-108-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	SL-109-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	SL-119-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	SL-120-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	SL-121-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	SL-122-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	SL-123-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	SL-124-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	SL-142-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	SL-143-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	SL-240-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	SL-309-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	SL-310-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	SL-311-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	SL-312-SA5B-SS-0.0-0.5	DE038	SO	2010-12-14	FIELD
5B	EB02-SA5B-121410	DE039	WQ	2010-12-14	FIELD
5B	SL-125-SA5B-SS-0.0-0.5	DE039	SO	2010-12-14	FIELD
5B	SL-126-SA5B-SS-0.0-0.5	DE039	SO	2010-12-14	FIELD
5B	SL-128-SA5B-SS-0.0-0.5	DE039	SO	2010-12-14	FIELD
5B	SL-129-SA5B-SS-0.0-0.5	DE039	SO	2010-12-14	FIELD
	TB-121410	DE039	WQ	2010-12-14	FIELD
5B	SL-131-SA5B-SS-0.0-0.5	DE040	SO	2010-12-15	FIELD
5B	SL-132-SA5B-SS-0.0-0.5	DE040	SO	2010-12-15	FIELD
5B	SL-133-SA5B-SS-0.0-0.5	DE040	SO	2010-12-15	FIELD
5B	SL-134-SA5B-SS-0.0-0.5	DE040	SO	2010-12-15	FIELD
5B	SL-135-SA5B-SS-0.0-0.5	DE040	SO	2010-12-15	FIELD
5B	SL-136-SA5B-SS-0.0-0.5	DE040	SO	2010-12-15	FIELD
5B	SL-149-SA5B-SS-0.0-0.5	DE040	SO	2010-12-15	FIELD
5B	SL-150-SA5B-SS-0.0-0.5	DE040	SO	2010-12-15	FIELD
5B	SL-153-SA5B-SS-0.0-0.5	DE040	SO	2010-12-15	FIELD
5B	SL-155-SA5B-SS-0.0-0.5	DE040	SO	2010-12-15	FIELD
5B	SL-156-SA5B-SS-0.0-0.5	DE040	SO	2010-12-15	FIELD
5B	SL-181-SA5B-SS-0.0-0.5	DE040	SO	2010-12-15	FIELD
5B	SL-203-SA5B-SS-0.0-0.5	DE040	SO	2010-12-15	FIELD
5B	SL-204-SA5B-SS-0.0-0.5	DE040	SO	2010-12-15	FIELD
5B	SL-257-SA5B-SS-0.0-0.5	DE040	SO	2010-12-15	FIELD
5B	DUP06-SA5B-QC-121510	DE041	SO	2010-12-15	FIELD
5B	EB03-SA5B-121510	DE041	WQ	2010-12-15	FIELD
5B	EB15-SA5B-121510	DE041	WQ	2010-12-15	FIELD
5B	SL-027-SA5B-SB-4.0-5.0	DE041	SO	2010-12-15	FIELD
5B	SL-027-SA5B-SB-8.0-9.0	DE041	SO	2010-12-15	FIELD
5B	SL-262-SA5B-SS-0.0-0.5	DE041	SO	2010-12-15	FIELD
5B	SL-263-SA5B-SS-0.0-0.5	DE041	SO	2010-12-15	FIELD
5B	SL-264-SA5B-SS-0.0-0.5	DE041	SO	2010-12-15	FIELD
5B	SL-297-SA5B-SB-4.0-5.0	DE041	SO	2010-12-15	FIELD
5B	SL-297-SA5B-SB-7.0-8.0	DE041	SO	2010-12-15	FIELD
5B	SL-298-SA5B-SB-4.0-5.0	DE041	SO	2010-12-15	FIELD
5B	SL-298-SA5B-SB-9.0-10.0	DE041	SO	2010-12-15	FIELD
5B	SL-302-SA5B-SS-0.0-0.5	DE041	SO	2010-12-15	FIELD
5B	SL-303-SA5B-SS-0.0-0.5	DE041	SO	2010-12-15	FIELD
	TB-121510	DE041	WQ	2010-12-15	FIELD
5B	SL-147-SA5B-SS-0.0-0.5	DE042	SO	2010-12-16	FIELD
5B	SL-169-SA5B-SS-0.0-0.5	DE042	SO	2010-12-16	FIELD
5B	SL-172-SA5B-SS-0.0-0.5	DE042	SO	2010-12-16	FIELD
5B	SL-173-SA5B-SS-0.0-0.5	DE042	SO	2010-12-16	FIELD
5B	SL-176-SA5B-SS-0.0-0.5	DE042	SO	2010-12-16	FIELD
5B	SL-178-SA5B-SS-0.0-0.5	DE042	SO	2010-12-16	FIELD
5B	SL-186-SA5B-SS-0.0-0.5	DE042	SO	2010-12-16	FIELD
5B	SL-187-SA5B-SS-0.0-0.5	DE042	SO	2010-12-16	FIELD
5B	SL-189-SA5B-SS-0.0-0.5	DE042	SO	2010-12-16	FIELD
5B	SL-192-SA5B-SS-0.0-0.5	DE042	SO	2010-12-16	FIELD
5B	SL-194-SA5B-SS-0.0-0.5	DE042	SO	2010-12-16	FIELD
5B	SL-196-SA5B-SS-0.0-0.5	DE042	SO	2010-12-16	FIELD
5B	SL-198-SA5B-SS-0.0-0.5	DE042	SO	2010-12-16	FIELD
5B	SL-199-SA5B-SS-0.0-0.5	DE042	SO	2010-12-16	FIELD
5B	SL-202-SA5B-SS-0.0-0.5	DE042	SO	2010-12-16	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	DUP07-SA5B-QC-121610	DE043	SO	2010-12-16	FIELD
5B	EB04-SA5B-121610	DE043	WQ	2010-12-16	FIELD
5B	EB16-SA5B-121610	DE043	WQ	2010-12-16	FIELD
5B	SL-040-SA5B-SB-1.5-2.5	DE043	SO	2010-12-16	FIELD
5B	SL-040-SA5B-SB-9.0-10.0	DE043	SO	2010-12-16	FIELD
5B	SL-041-SA5B-SB-1.5-2.5	DE043	SO	2010-12-16	FIELD
5B	SL-041-SA5B-SB-8.0-9.0	DE043	SO	2010-12-16	FIELD
5B	SL-042-SA5B-SB-2.5-3.5	DE043	SO	2010-12-16	FIELD
5B	SL-042-SA5B-SB-8.0-9.0	DE043	SO	2010-12-16	FIELD
5B	SL-043-SA5B-SB-2.5-3.5	DE043	SO	2010-12-16	FIELD
5B	SL-205-SA5B-SS-0.0-0.5	DE043	SO	2010-12-16	FIELD
5B	SL-284-SA5B-SS-0.0-0.5	DE043	SO	2010-12-16	FIELD
5B	SL-285-SA5B-SS-0.0-0.5	DE043	SO	2010-12-16	FIELD
5B	SL-286-SA5B-SS-0.0-0.5	DE043	SO	2010-12-16	FIELD
5B	SL-304-SA5B-SS-0.0-0.5	DE043	SO	2010-12-16	FIELD
	TB-121610	DE043	WQ	2010-12-16	FIELD
5B	SL-160-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-161-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-162-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-166-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-206-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-207-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-208-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-209-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-210-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-211-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-272-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-273-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-274-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-275-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-276-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-277-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-278-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	SL-279-SA5B-SS-0.0-0.5	DE044	SO	2010-12-17	FIELD
5B	DUP08-SA5B-QC-121710	DE045	SO	2010-12-17	FIELD
5B	EB05-SA5B-121710	DE045	WQ	2010-12-17	FIELD
5B	SL-026-SA5B-SB-4.0-5.0	DE045	SO	2010-12-17	FIELD
5B	SL-026-SA5B-SB-9.0-10	DE045	SO	2010-12-17	FIELD
5B	SL-281-SA5B-SB-4.0-5.0	DE045	SO	2010-12-17	FIELD
5B	SL-281-SA5B-SB-8.0-9.0	DE045	SO	2010-12-17	FIELD
5B	SL-282-SA5B-SB-4.0-5.0	DE045	SO	2010-12-17	FIELD
5B	SL-282-SA5B-SB-7.0-8.0	DE045	SO	2010-12-17	FIELD
	TB-121710	DE045	WQ	2010-12-17	FIELD
5B	DUP09-SA5B-QC-122010	DE047	SO	2010-12-20	FIELD
5B	EB06-SA5B-122010	DE047	WQ	2010-12-20	FIELD
5B	SL-212-SA5B-SS-0.0-0.5	DE047	SO	2010-12-20	FIELD
5B	SL-213-SA5B-SS-0.0-0.5	DE047	SO	2010-12-20	FIELD
5B	SL-214-SA5B-SS-0.0-0.5	DE047	SO	2010-12-20	FIELD
5B	SL-215-SA5B-SS-0.0-0.5	DE047	SO	2010-12-20	FIELD
5B	SL-216-SA5B-SS-0.0-0.5	DE047	SO	2010-12-20	FIELD
5B	SL-217-SA5B-SS-0.0-0.5	DE047	SO	2010-12-20	FIELD
5B	SL-255-SA5B-SS-0.0-0.5	DE047	SO	2010-12-20	FIELD
5B	DUP14-SA5B-QC-122010	DE048	SO	2010-12-20	FIELD
5B	SL-044-SA5B-SB-4.0-5.0	DE048	SO	2010-12-20	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	SL-044-SA5B-SB-7.0-8.0	DE048	SO	2010-12-20	FIELD
5B	SL-045-SA5B-SB-3.0-4.0	DE048	SO	2010-12-20	FIELD
	TB-122010	DE048	WQ	2010-12-20	FIELD
5B	DUP15-SA5B-QC-122110	DE049	SO	2010-12-21	FIELD
5B	EB07-SA5B-122110	DE049	WQ	2010-12-21	FIELD
5B	SL-006-SA5B-SB-4.0-5.0	DE049	SO	2010-12-21	FIELD
5B	SL-006-SA5B-SB-5.0-6.0	DE049	SO	2010-12-21	FIELD
5B	SL-046-SA5B-SB-4.0-5.0	DE049	SO	2010-12-21	FIELD
5B	SL-046-SA5B-SB-9.0-10.0	DE049	SO	2010-12-21	FIELD
5B	SL-047-SA5B-SB-4.0-5.0	DE049	SO	2010-12-21	FIELD
5B	SL-159-SA5B-SS-0.0-0.5	DE049	SO	2010-12-21	FIELD
5B	SL-183-SA5B-SS-0.0-0.5	DE049	SO	2010-12-21	FIELD
5B	SL-219-SA5B-SS-0.0-0.5	DE049	SO	2010-12-21	FIELD
5B	SL-225-SA5B-SS-0.0-0.5	DE049	SO	2010-12-21	FIELD
5B	SL-226-SA5B-SS-0.0-0.5	DE049	SO	2010-12-21	FIELD
5B	SL-227-SA5B-SS-0.0-0.5	DE049	SO	2010-12-21	FIELD
	TB-122110	DE049	WQ	2010-12-21	FIELD
5B	DUP10-SA5B-QC-122210	DE051	SO	2010-12-22	FIELD
5B	EB08-SA5B-122210	DE051	WQ	2010-12-22	FIELD
5B	FB06-SA5B-122210	DE051	WQ	2010-12-22	FIELD
5B	SL-024-SA5B-SS-0.0-0.5	DE051	SO	2010-12-22	FIELD
5B	SL-100-SA5B-SS-0.0-0.5	DE051	SO	2010-12-22	FIELD
5B	SL-101-SA5B-SS-0.0-0.5	DE051	SO	2010-12-22	FIELD
5B	SL-102-SA5B-SS-0.0-0.5	DE051	SO	2010-12-22	FIELD
5B	SL-114-SA5B-SS-0.0-0.5	DE051	SO	2010-12-22	FIELD
5B	SL-117-SA5B-SS-0.0-0.5	DE051	SO	2010-12-22	FIELD
5B	SL-118-SA5B-SS-0.0-0.5	DE051	SO	2010-12-22	FIELD
5B	SL-145-SA5B-SB-4.0-5.0	DE051	SO	2010-12-22	FIELD
5B	SL-157-SA5B-SB-4.0-5.0	DE051	SO	2010-12-22	FIELD
5B	SL-157-SA5B-SB-9.0-10.0	DE051	SO	2010-12-22	FIELD
5B	SL-158-SA5B-SB-4.0-5.0	DE051	SO	2010-12-22	FIELD
	TB-122210	DE051	WQ	2010-12-22	FIELD
5B	SL-140-SA5B-SS-0.0-0.5	DE052	SO	2011-01-04	FIELD
5B	SL-146-SA5B-SB-4.0-5.0	DE052	SO	2011-01-04	FIELD
5B	SL-259-SA5B-SB-4.0-5.0	DE052	SO	2011-01-04	FIELD
	TB-010411	DE052	WQ	2011-01-04	FIELD
5B	SL-027-SA5B-SS-0.0-0.5	DE053	SO	2011-01-05	FIELD
5B	SL-065-SA5B-SB-4.0-5.0	DE053	SO	2011-01-05	FIELD
5B	SL-065-SA5B-SB-9.0-10.0	DE053	SO	2011-01-05	FIELD
5B	SL-067-SA5B-SB-3.5-4.5	DE053	SO	2011-01-05	FIELD
5B	SL-068-SA5B-SB-3.0-4.0	DE053	SO	2011-01-05	FIELD
5B	SL-069-SA5B-SB-3.0-4.0	DE053	SO	2011-01-05	FIELD
5B	SL-070-SA5B-SB-2.5-3.5	DE053	SO	2011-01-05	FIELD
5B	SL-298-SA5B-SS-0.0-0.5	DE053	SO	2011-01-05	FIELD
	TB-010511	DE053	WQ	2011-01-05	FIELD
5B	DUP16-SA5B-QC-010611	DE054	SO	2011-01-06	FIELD
5B	EB18-SA5B-010611	DE054	WQ	2011-01-06	FIELD
5B	SL-050-SA5B-SB-3.0-4.0	DE054	SO	2011-01-06	FIELD
5B	SL-051-SA5B-SB-3.0-4.0	DE054	SO	2011-01-06	FIELD
5B	SL-058-SA5B-SB-4.0-5.0	DE054	SO	2011-01-06	FIELD
5B	SL-063-SA5B-SB-3.0-4.0	DE054	SO	2011-01-06	FIELD
5B	SL-066-SA5B-SB-3.0-4.0	DE054	SO	2011-01-06	FIELD
5B	SL-137-SA5B-SS-0.0-0.5	DE054	SO	2011-01-06	FIELD
	TB-010611	DE054	WQ	2011-01-06	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	EB19-SA5B-010711	DE055	WQ	2011-01-07	FIELD
5B	SL-055-SA5B-SB-4.0-5.0	DE055	SO	2011-01-07	FIELD
5B	SL-055-SA5B-SB-8.5-9.5	DE055	SO	2011-01-07	FIELD
5B	SL-056-SA5B-SB-4.0-5.0	DE055	SO	2011-01-07	FIELD
5B	SL-056-SA5B-SB-9.0-10.0	DE055	SO	2011-01-07	FIELD
5B	SL-059-SA5B-SB-4.0-5.0	DE055	SO	2011-01-07	FIELD
5B	SL-059-SA5B-SB-8.5-9.5	DE055	SO	2011-01-07	FIELD
5B	SL-060-SA5B-SB-4.0-5.0	DE055	SO	2011-01-07	FIELD
5B	SL-061-SA5B-SB-3.5-4.5	DE055	SO	2011-01-07	FIELD
5B	SL-062-SA5B-SB-4.0-5.0	DE055	SO	2011-01-07	FIELD
5B	SL-062-SA5B-SB-9.0-10.0	DE055	SO	2011-01-07	FIELD
5B	SL-234-SA5B-SB-2.5-3.5	DE055	SO	2011-01-07	FIELD
	TB-010711	DE055	WQ	2011-01-07	FIELD
5B	SL-053-SA5B-SB-1.8-2.8	DE056	SO	2011-01-10	FIELD
5B	SL-054-SA5B-SB-3.0-4.0	DE056	SO	2011-01-10	FIELD
5B	SL-105-SA5B-SB-4.0-5.0	DE056	SO	2011-01-10	FIELD
5B	SL-106-SA5B-SB-4.0-5.0	DE056	SO	2011-01-10	FIELD
5B	SL-107-SA5B-SB-4.0-5.0	DE056	SO	2011-01-10	FIELD
5B	SL-108-SA5B-SB-4.0-5.0	DE056	SO	2011-01-10	FIELD
5B	SL-109-SA5B-SB-4.0-5.0	DE056	SO	2011-01-10	FIELD
5B	SL-110-SA5B-SB-4.0-5.0	DE056	SO	2011-01-10	FIELD
5B	SL-111-SA5B-SB-4.0-5.0	DE056	SO	2011-01-10	FIELD
5B	SL-240-SA5B-SB-4.0-5.0	DE056	SO	2011-01-10	FIELD
5B	SL-240-SA5B-SB-9.0-10.0	DE056	SO	2011-01-10	FIELD
	TB-011011	DE056	WQ	2011-01-10	FIELD
5B	SL-085-SA5B-SB-3.0-4.0	DE057	SO	2011-01-11	FIELD
5B	SL-086-SA5B-SB-4.0-5.0	DE057	SO	2011-01-11	FIELD
5B	SL-087-SA5B-SB-3.0-4.0	DE057	SO	2011-01-11	FIELD
5B	SL-088-SA5B-SB-3.0-4.0	DE057	SO	2011-01-11	FIELD
5B	SL-089-SA5B-SB-4.0-5.0	DE057	SO	2011-01-11	FIELD
5B	SL-090-SA5B-SB-2.5-3.5	DE057	SO	2011-01-11	FIELD
5B	SL-091-SA5B-SB-4.0-5.0	DE057	SO	2011-01-11	FIELD
5B	SL-093-SA5B-SB-3.0-4.0	DE057	SO	2011-01-11	FIELD
5B	SL-094-SA5B-SB-4.0-5.0	DE057	SO	2011-01-11	FIELD
5B	SL-099-SA5B-SB-4.0-5.0	DE057	SO	2011-01-11	FIELD
5B	SL-100-SA5B-SB-4.0-5.0	DE057	SO	2011-01-11	FIELD
	TB-011111	DE057	WQ	2011-01-11	FIELD
5B	DUP18-SA5B-QC-011211	DE058	SO	2011-01-12	FIELD
5B	SL-095-SA5B-SB-4.0-5.0	DE058	SO	2011-01-12	FIELD
5B	SL-096-SA5B-SB-2.0-3.0	DE058	SO	2011-01-12	FIELD
5B	DUP17-SA5B-QC-011211	DE059	SO	2011-01-12	FIELD
5B	SL-071-SA5B-SB-2.0-3.0	DE059	SO	2011-01-12	FIELD
5B	SL-072-SA5B-SB-4.0-5.0	DE059	SO	2011-01-12	FIELD
5B	SL-092-SA5B-SB-4.0-5.0	DE059	SO	2011-01-12	FIELD
5B	SL-097-SA5B-SB-4.0-5.0	DE059	SO	2011-01-12	FIELD
5B	SL-097-SA5B-SB-7.0-8.0	DE059	SO	2011-01-12	FIELD
5B	SL-098-SA5B-SB-4.0-5.0	DE059	SO	2011-01-12	FIELD
5B	SL-103-SA5B-SB-4.0-5.0	DE059	SO	2011-01-12	FIELD
5B	SL-103-SA5B-SB-9.0-10.0	DE059	SO	2011-01-12	FIELD
5B	SL-104-SA5B-SB-4.0-5.0	DE059	SO	2011-01-12	FIELD
5B	SL-104-SA5B-SB-9.0-10.0	DE059	SO	2011-01-12	FIELD
	TB-011211	DE059	WQ	2011-01-12	FIELD
5B	EB20-SA5B-011311	DE060	WQ	2011-01-13	FIELD
5B	EB21-SA5B-011311	DE060	WQ	2011-01-13	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	SL-073-SA5B-SB-4.0-5.0	DE060	SO	2011-01-13	FIELD
5B	SL-074-SA5B-SB-4.0-5.0	DE060	SO	2011-01-13	FIELD
5B	SL-074-SA5B-SB-7.0-8.0	DE060	SO	2011-01-13	FIELD
5B	SL-119-SA5B-SB-3.0-4.0	DE060	SO	2011-01-13	FIELD
5B	SL-120-SA5B-SB-3.0-4.0	DE060	SO	2011-01-13	FIELD
5B	SL-121-SA5B-SB-4.0-5.0	DE060	SO	2011-01-13	FIELD
5B	SL-122-SA5B-SB-2.0-3.0	DE060	SO	2011-01-13	FIELD
5B	SL-301-SA5B-SB-4.0-5.0	DE060	SO	2011-01-13	FIELD
5B	SL-301-SA5B-SB-7.5-8.5	DE060	SO	2011-01-13	FIELD
	TB-011311	DE060	WQ	2011-01-13	FIELD
5B	EB22-SA5B-011411	DE061	WQ	2011-01-14	FIELD
5B	SL-081-SA5B-SB-2.5-3.5	DE061	SO	2011-01-14	FIELD
5B	SL-081-SA5B-SB-6.0-7.0	DE061	SO	2011-01-14	FIELD
5B	SL-083-SA5B-SB-4.0-5.0	DE061	SO	2011-01-14	FIELD
5B	SL-124-SA5B-SB-4.0-5.0	DE061	SO	2011-01-14	FIELD
5B	SL-124-SA5B-SB-7.5-8.5	DE061	SO	2011-01-14	FIELD
5B	SL-125-SA5B-SB-4.0-5.0	DE061	SO	2011-01-14	FIELD
5B	SL-126-SA5B-SB-2.0-3.0	DE061	SO	2011-01-14	FIELD
5B	SL-128-SA5B-SB-4.0-5.0	DE061	SO	2011-01-14	FIELD
5B	SL-129-SA5B-SB-2.0-3.0	DE061	SO	2011-01-14	FIELD
	TB-011411	DE061	WQ	2011-01-14	FIELD
5B	SL-039-SA5B-SB-4.0-5.0	DE062	SO	2011-01-17	FIELD
5B	SL-039-SA5B-SB-9.0-10.0	DE062	SO	2011-01-17	FIELD
5B	SL-078-SA5B-SB-4.0-5.0	DE062	SO	2011-01-17	FIELD
5B	SL-082-SA5B-SB-2.25-3.25	DE062	SO	2011-01-17	FIELD
5B	SL-082-SA5B-SB-7.0-8.0	DE062	SO	2011-01-17	FIELD
5B	SL-101-SA5B-SB-4.0-5.0	DE062	SO	2011-01-17	FIELD
5B	SL-101-SA5B-SB-7.5-8.5	DE062	SO	2011-01-17	FIELD
5B	SL-112-SA5B-SB-4.0-5.0	DE062	SO	2011-01-17	FIELD
5B	SL-113-SA5B-SB-4.0-5.0	DE062	SO	2011-01-17	FIELD
5B	SL-117-SA5B-SB-4.0-5.0	DE062	SO	2011-01-17	FIELD
	TB-011711	DE062	WQ	2011-01-17	FIELD
5B	SL-114-SA5B-SB-4.0-5.0	DE063	SO	2011-01-18	FIELD
5B	SL-115-SA5B-SB-4.0-5.0	DE063	SO	2011-01-18	FIELD
5B	SL-116-SA5B-SB-4.0-5.0	DE063	SO	2011-01-18	FIELD
5B	SL-118-SA5B-SB-4.0-5.0	DE063	SO	2011-01-18	FIELD
5B	SL-118-SA5B-SB-8.0-9.0	DE063	SO	2011-01-18	FIELD
5B	SL-280-SA5B-SB-4.0-5.0	DE063	SO	2011-01-18	FIELD
5B	SL-283-SA5B-SB-4.0-5.0	DE063	SO	2011-01-18	FIELD
5B	SL-283-SA5B-SB-9.0-10.0	DE063	SO	2011-01-18	FIELD
5B	SL-295-SA5B-SB-4.0-5.0	DE063	SO	2011-01-18	FIELD
5B	SL-296-SA5B-SB-4.0-5.0	DE063	SO	2011-01-18	FIELD
5B	SL-296-SA5B-SB-9.0-10.0	DE063	SO	2011-01-18	FIELD
	TB-011811	DE063	WQ	2011-01-18	FIELD
5B	SL-022-SA5B-SB-2.0-3.0	DE064	SO	2011-01-19	FIELD
5B	SL-024-SA5B-SB-4.0-5.0	DE064	SO	2011-01-19	FIELD
5B	SL-025-SA5B-SB-4.0-5.0	DE064	SO	2011-01-19	FIELD
5B	SL-025-SA5B-SB-9.0-10.0	DE064	SO	2011-01-19	FIELD
5B	SL-031-SA5B-SB-4.0-5.0	DE064	SO	2011-01-19	FIELD
5B	SL-031-SA5B-SB-9.0-10.0	DE064	SO	2011-01-19	FIELD
5B	SL-048-SA5B-SB-4.0-5.0	DE064	SO	2011-01-19	FIELD
5B	SL-049-SA5B-SB-4.0-5.0	DE064	SO	2011-01-19	FIELD
5B	SL-287-SA5B-SB-4.0-5.0	DE064	SO	2011-01-19	FIELD
5B	SL-287-SA5B-SB-9.0-10.0	DE064	SO	2011-01-19	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	TB-011911	DE064	WQ	2011-01-19	FIELD
5B	DUP19-SA5B-QC-012011	DE065	SO	2011-01-20	FIELD
5B	EB23-SA5B-012011	DE065	WQ	2011-01-20	FIELD
5B	EB24-SA5B-012011	DE065	WQ	2011-01-20	FIELD
5B	SL-014-SA5B-SB-4.0-5.0	DE065	SO	2011-01-20	FIELD
5B	SL-019-SA5B-SB-4.0-5.0	DE065	SO	2011-01-20	FIELD
5B	SL-029-SA5B-SB-4.0-5.0	DE065	SO	2011-01-20	FIELD
5B	SL-029-SA5B-SB-9.0-10.0	DE065	SO	2011-01-20	FIELD
5B	SL-030-SA5B-SB-4.0-5.0	DE065	SO	2011-01-20	FIELD
5B	SL-030-SA5B-SB-9.0-10.0	DE065	SO	2011-01-20	FIELD
5B	SL-034-SA5B-SB-4.0-5.0	DE065	SO	2011-01-20	FIELD
5B	SL-035-SA5B-SB-4.0-5.0	DE065	SO	2011-01-20	FIELD
5B	SL-035-SA5B-SB-7.0-8.0	DE065	SO	2011-01-20	FIELD
5B	SL-036-SA5B-SB-4.0-5.0	DE065	SO	2011-01-20	FIELD
5B	SL-037-SA5B-SB-3.5-4.5	DE065	SO	2011-01-20	FIELD
5B	SL-294-SA5B-SB-4.0-5.0	DE065	SO	2011-01-20	FIELD
5B	SL-294-SA5B-SB-9.0-10.0	DE065	SO	2011-01-20	FIELD
	TB-012011	DE065	WQ	2011-01-20	FIELD
5B	DUP20-SA5B-QC-012111	DE066	SO	2011-01-21	FIELD
5B	EB25-SA5B-012111	DE066	WQ	2011-01-21	FIELD
5B	SL-253-SA5B-SB-3.0-4.0	DE066	SO	2011-01-21	FIELD
5B	SL-254-SA5B-SB-3.5-4.5	DE066	SO	2011-01-21	FIELD
5B	SL-307-SA5B-SB-14.0-15.0	DE066	SO	2011-01-21	FIELD
5B	SL-307-SA5B-SB-4.0-5.0	DE066	SO	2011-01-21	FIELD
5B	SL-307-SA5B-SB-9.0-10.0	DE066	SO	2011-01-21	FIELD
5B	SL-308-SA5B-SB-4.0-5.0	DE066	SO	2011-01-21	FIELD
5B	SL-308-SA5B-SB-9.0-10.0	DE066	SO	2011-01-21	FIELD
	TB-012111	DE066	WQ	2011-01-21	FIELD
5B	SL-032-SA5B-SB-14.0-15.0	DE067	SO	2011-01-24	FIELD
5B	SL-032-SA5B-SB-4.0-5.0	DE067	SO	2011-01-24	FIELD
5B	SL-032-SA5B-SB-9.0-10.0	DE067	SO	2011-01-24	FIELD
5B	SL-033-SA5B-SB-14.0-15.0	DE067	SO	2011-01-24	FIELD
5B	SL-033-SA5B-SB-4.0-5.0	DE067	SO	2011-01-24	FIELD
5B	SL-033-SA5B-SB-9.0-10.0	DE067	SO	2011-01-24	FIELD
5B	SL-151-SA5B-SB-4.0-5.0	DE067	SO	2011-01-24	FIELD
5B	SL-151-SA5B-SB-7.0-8.0	DE067	SO	2011-01-24	FIELD
5B	SL-152-SA5B-SB-4.0-5.0	DE067	SO	2011-01-24	FIELD
5B	SL-152-SA5B-SB-9.0-10.0	DE067	SO	2011-01-24	FIELD
5B	SL-153-SA5B-SB-4.0-5.0	DE067	SO	2011-01-24	FIELD
5B	SL-154-SA5B-SB-4.0-5.0	DE067	SO	2011-01-24	FIELD
5B	SL-155-SA5B-SB-3.5-4.5	DE067	SO	2011-01-24	FIELD
	TB-012411	DE067	WQ	2011-01-24	FIELD
5B	SL-148-SA5B-SB-4.0-5.0	DE068	SO	2011-01-25	FIELD
5B	SL-149-SA5B-SB-3.5-4.5	DE068	SO	2011-01-25	FIELD
5B	SL-150-SA5B-SB-4.0-5.0	DE068	SO	2011-01-25	FIELD
5B	SL-156-SA5B-SB-4.0-5.0	DE068	SO	2011-01-25	FIELD
	TB-012511	DE068	WQ	2011-01-25	FIELD
5B	EB26-SA5B-012611	DE069	WQ	2011-01-26	FIELD
5B	SL-015-SA5B-SB-4.0-5.0	DE069	SO	2011-01-26	FIELD
5B	SL-016-SA5B-SB-4.0-5.0	DE069	SO	2011-01-26	FIELD
5B	SL-016-SA5B-SB-9.0-10.0	DE069	SO	2011-01-26	FIELD
5B	SL-018-SA5B-SB-4.0-5.0	DE069	SO	2011-01-26	FIELD
5B	SL-018-SA5B-SB-9.0-10.0	DE069	SO	2011-01-26	FIELD
5B	SL-180-SA5B-SB-4.0-5.0	DE069	SO	2011-01-26	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	SL-180-SA5B-SB-9.0-10.0	DE069	SO	2011-01-26	FIELD
5B	SL-262-SA5B-SB-4.0-5.0	DE069	SO	2011-01-26	FIELD
5B	SL-263-SA5B-SB-2.0-3.0	DE069	SO	2011-01-26	FIELD
	TB-012611	DE069	WQ	2011-01-26	FIELD
5B	EB27-SA5B-012711	DE070	WQ	2011-01-27	FIELD
5B	SL-017-SA5B-SB-4.0-5.0	DE070	SO	2011-01-27	FIELD
5B	SL-017-SA5B-SB-9.0-10.0	DE070	SO	2011-01-27	FIELD
5B	SL-021-SA5B-SB-4.0-5.0	DE070	SO	2011-01-27	FIELD
5B	SL-181-SA5B-SB-4.0-5.0	DE070	SO	2011-01-27	FIELD
5B	SL-185-SA5B-SB-4.0-5.0	DE070	SO	2011-01-27	FIELD
5B	SL-186-SA5B-SB-4.0-5.0	DE070	SO	2011-01-27	FIELD
5B	SL-192-SA5B-SB-4.0-5.0	DE070	SO	2011-01-27	FIELD
5B	SL-203-SA5B-SB-4.0-5.0	DE070	SO	2011-01-27	FIELD
5B	SL-203-SA5B-SB-7.5-8.5	DE070	SO	2011-01-27	FIELD
	TB-012711	DE070	WQ	2011-01-27	FIELD
5B	SL-178-SA5B-SB-4.0-5.0	DE071	SO	2011-01-28	FIELD
5B	SL-179-SA5B-SB-4.0-5.0	DE071	SO	2011-01-28	FIELD
5B	SL-179-SA5B-SB-7.0-8.0	DE071	SO	2011-01-28	FIELD
5B	SL-183-SA5B-SB-4.0-5.0	DE071	SO	2011-01-28	FIELD
5B	SL-184-SA5B-SB-3.0-4.0	DE071	SO	2011-01-28	FIELD
5B	SL-193-SA5B-SB-4.0-5.0	DE071	SO	2011-01-28	FIELD
5B	SL-194-SA5B-SB-4.0-5.0	DE071	SO	2011-01-28	FIELD
5B	SL-196-SA5B-SB-4.0-5.0	DE071	SO	2011-01-28	FIELD
5B	SL-201-SA5B-SB-4.0-5.0	DE071	SO	2011-01-28	FIELD
5B	SL-201-SA5B-SB-9.0-10.0	DE071	SO	2011-01-28	FIELD
5B	SL-202-SA5B-SB-4.0-5.0	DE071	SO	2011-01-28	FIELD
5B	SL-202-SA5B-SB-7.0-8.0	DE071	SO	2011-01-28	FIELD
5B	SL-187-SA5B-SB-4.0-5.0	DE072	SO	2011-02-01	FIELD
5B	SL-188-SA5B-SB-4.0-5.0	DE072	SO	2011-02-01	FIELD
5B	SL-189-SA5B-SB-3.0-4.0	DE072	SO	2011-02-01	FIELD
5B	SL-190-SA5B-SB-4.0-5.0	DE072	SO	2011-02-01	FIELD
5B	SL-191-SA5B-SB-4.0-5.0	DE072	SO	2011-02-01	FIELD
5B	SL-276-SA5B-SB-4.0-5.0	DE072	SO	2011-02-01	FIELD
5B	SL-277-SA5B-SB-2.5-3.5	DE072	SO	2011-02-01	FIELD
5B	SL-278-SA5B-SB-2.0-3.0	DE072	SO	2011-02-01	FIELD
5B	SL-279-SA5B-SB-2.5-3.5	DE072	SO	2011-02-01	FIELD
	TB-020111	DE072	WQ	2011-02-01	FIELD
5B	DUP21-SA5B-QC-013111	DE073	SO	2011-01-31	FIELD
5B	SL-182-SA5B-SB-4.0-5.0	DE073	SO	2011-01-31	FIELD
5B	SL-204-SA5B-SB-4.0-5.0	DE073	SO	2011-01-31	FIELD
	TB-013111	DE073	WQ	2011-01-31	FIELD
5B	DUP22-SA5B-QC-013111	DE074	SO	2011-01-31	FIELD
5B	SL-175-SA5B-SB-4.0-5.0	DE074	SO	2011-01-31	FIELD
5B	SL-176-SA5B-SB-4.0-5.0	DE074	SO	2011-01-31	FIELD
5B	SL-177-SA5B-SB-4.0-5.0	DE074	SO	2011-01-31	FIELD
5B	SL-195-SA5B-SB-4.0-5.0	DE074	SO	2011-01-31	FIELD
5B	SL-197-SA5B-SB-4.0-5.0	DE074	SO	2011-01-31	FIELD
5B	SL-198-SA5B-SB-4.0-5.0	DE074	SO	2011-01-31	FIELD
5B	SL-199-SA5B-SB-4.0-5.0	DE074	SO	2011-01-31	FIELD
5B	SL-200-SA5B-SB-4.0-5.0	DE074	SO	2011-01-31	FIELD
5B	EB28-SA5B-020311	DE075	WQ	2011-02-03	FIELD
5B	EB29-SA5B-020311	DE075	WQ	2011-02-03	FIELD
5B	SL-205-SA5B-SB-2.5-3.5	DE075	SO	2011-02-03	FIELD
5B	SL-207-SA5B-SB-2.5-3.5	DE075	SO	2011-02-03	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	SL-210-SA5B-SB-4.0-5.0	DE075	SO	2011-02-03	FIELD
5B	SL-211-SA5B-SB-4.0-5.0	DE075	SO	2011-02-03	FIELD
5B	SL-229-SA5B-SB-2.0-3.0	DE075	SO	2011-02-03	FIELD
5B	SL-230-SA5B-SB-2.0-3.0	DE075	SO	2011-02-03	FIELD
5B	SL-274-SA5B-SB-4.0-5.0	DE075	SO	2011-02-03	FIELD
	TB-020311	DE075	WQ	2011-02-02	FIELD
5B	SL-159-SA5B-SB-4.0-5.0	DE076	SO	2011-02-04	FIELD
5B	SL-159-SA5B-SB-8.0-9.0	DE076	SO	2011-02-04	FIELD
5B	SL-165-SA5B-SB-4.0-5.0	DE076	SO	2011-02-04	FIELD
5B	SL-272-SA5B-SB-4.0-5.0	DE076	SO	2011-02-04	FIELD
5B	SL-273-SA5B-SB-2.0-3.0	DE076	SO	2011-02-04	FIELD
	TB-020411	DE076	WQ	2011-02-04	FIELD
5B	SL-160-SA5B-SB-4.0-5.0	DE077	SO	2011-02-07	FIELD
5B	SL-161-SA5B-SB-4.0-5.0	DE077	SO	2011-02-07	FIELD
5B	SL-162-SA5B-SB-4.0-5.0	DE077	SO	2011-02-07	FIELD
5B	SL-163-SA5B-SB-3.5-4.5	DE077	SO	2011-02-07	FIELD
	TB-020711	DE077	WQ	2011-02-07	FIELD
5B	SL-164-SA5B-SB-4.0-5.0	DE078	SO	2011-02-08	FIELD
5B	SL-168-SA5B-SB-4.0-5.0	DE078	SO	2011-02-08	FIELD
5B	SL-313-SA5B-SB-4.0-5.0	DE078	SO	2011-02-08	FIELD
5B	SL-314-SA5B-SB-4.0-5.0	DE078	SO	2011-02-08	FIELD
5B	SL-315-SA5B-SS-0.0-0.5	DE078	SO	2011-02-08	FIELD
5B	SL-316-SA5B-SS-0.0-0.5	DE078	SO	2011-02-08	FIELD
5B	SL-327-SA5B-SS-0.0-0.5	DE078	SO	2011-02-08	FIELD
5B	SL-328-SA5B-SS-0.0-0.5	DE078	SO	2011-02-08	FIELD
	TB-020811	DE078	WQ	2011-02-08	FIELD
5B	SL-314-SA5B-SS-0.0-0.5	DE079	SO	2011-02-09	FIELD
5B	SL-316-SA5B-SB-4.5-5.5	DE079	SO	2011-02-09	FIELD
5B	SL-319-SA5B-SS-0.0-0.5	DE079	SO	2011-02-09	FIELD
5B	SL-323-SA5B-SS-0.0-0.5	DE079	SO	2011-02-09	FIELD
5B	SL-324-SA5B-SS-0.0-0.5	DE079	SO	2011-02-09	FIELD
5B	SL-326-SA5B-SS-0.0-0.5	DE079	SO	2011-02-09	FIELD
5B	SL-328-SA5B-SB-3.5-4.5	DE079	SO	2011-02-09	FIELD
	TB-020911	DE079	WQ	2011-02-09	FIELD
5B	DUP24-SA5B-QC-021011	DE080	SO	2011-02-10	FIELD
5B	EB31-SA5B-021011	DE080	WQ	2011-02-10	FIELD
5B	SL-315-SA5B-SB-3.0-4.0	DE080	SO	2011-02-10	FIELD
5B	SL-319-SA5B-SB-4.0-5.0	DE080	SO	2011-02-10	FIELD
5B	SL-321-SA5B-SS-0.0-0.5	DE080	SO	2011-02-10	FIELD
5B	SL-322-SA5B-SS-0.0-0.5	DE080	SO	2011-02-10	FIELD
5B	SL-326-SA5B-SB-18.5-19.5	DE080	SO	2011-02-10	FIELD
5B	SL-326-SA5B-SB-9.0-10.0	DE080	SO	2011-02-10	FIELD
5B	SL-329-SA5B-SS-0.0-0.5	DE080	SO	2011-02-10	FIELD
5B	SL-330-SA5B-SS-0.0-0.5	DE080	SO	2011-02-10	FIELD
5B	SL-331-SA5B-SS-0.0-0.5	DE080	SO	2011-02-10	FIELD
5B	SL-332-SA5B-SS-0.0-0.5	DE080	SO	2011-02-10	FIELD
5B	SL-333-SA5B-SS-0.0-0.5	DE080	SO	2011-02-10	FIELD
5B	SL-334-SA5B-SS-0.0-0.5	DE080	SO	2011-02-10	FIELD
5B	SL-335-SA5B-SS-0.0-0.5	DE080	SO	2011-02-10	FIELD
	TB-021011	DE080	WQ	2011-02-10	FIELD
5B	SL-049-SA5B-SS-0.0-0.5	DE081	SO	2011-02-11	FIELD
5B	SL-138-SA5B-SS-0.0-0.5	DE081	SO	2011-02-11	FIELD
5B	SL-141-SA5B-SS-0.0-0.5	DE081	SO	2011-02-11	FIELD
5B	SL-144-SA5B-SS-0.0-0.5	DE081	SO	2011-02-11	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	SL-253-SA5B-SS-0.0-0.5	DE081	SO	2011-02-11	FIELD
5B	SL-254-SA5B-SS-0.0-0.5	DE081	SO	2011-02-11	FIELD
5B	SL-289-SA5B-SS-0.0-0.5	DE081	SO	2011-02-11	FIELD
5B	SL-324-SA5B-SB-4.0-5.0	DE081	SO	2011-02-14	FIELD
5B	SL-324-SA5B-SB-8.0-9.0	DE081	SO	2011-02-14	FIELD
	TB-021411	DE081	WQ	2011-02-14	FIELD
5B	DUP23-SA5B-QC-021511	DE082	SO	2011-02-15	FIELD
5B	EB30-SA5B-021511	DE082	WQ	2011-02-15	FIELD
5B	SL-323-SA5B-SB-11.0-12.0	DE082	SO	2011-02-15	FIELD
5B	SL-323-SA5B-SB-4.0-5.0	DE082	SO	2011-02-15	FIELD
5B	SL-327-SA5B-SB-4.0-5.0	DE082	SO	2011-02-15	FIELD
5B	SL-329-SA5B-SB-4.0-5.0	DE082	SO	2011-02-15	FIELD
5B	SL-330-SA5B-SB-4.0-5.0	DE082	SO	2011-02-15	FIELD
	TB-021511	DE082	WQ	2011-02-15	FIELD
5B	SL-332-SA5B-SB-4.0-5.0	DE083	SO	2011-02-16	FIELD
5B	SL-333-SA5B-SB-4.0-5.0	DE083	SO	2011-02-16	FIELD
5B	SL-335-SA5B-SB-2.0-3.0	DE083	SO	2011-02-16	FIELD
	TB-021611	DE083	WQ	2011-02-16	FIELD
5B	SL-321-SA5B-SB-3.0-4.0	DE084	SO	2011-02-17	FIELD
5B	SL-322-SA5B-SB-3.0-4.0	DE084	SO	2011-02-17	FIELD
5B	SL-331-SA5B-SB-3.0-4.0	DE084	SO	2011-02-17	FIELD
5B	SL-336-SA5B-SB-4.0-5.0	DE084	SO	2011-02-17	FIELD
5B	SL-337-SA5B-SB-3.0-4.0	DE084	SO	2011-02-17	FIELD
	TB-021711	DE084	WQ	2011-02-17	FIELD
5B	SL-172-SA5B-SB-2.0-3.0	DE085	SO	2011-02-02	FIELD
5B	SL-173-SA5B-SB-2.0-3.0	DE085	SO	2011-02-02	FIELD
5B	SL-209-SA5B-SB-4.0-5.0	DE085	SO	2011-02-02	FIELD
5B	SL-275-SA5B-SB-3.5-4.5	DE085	SO	2011-02-02	FIELD
	TB-020211	DE085	WQ	2011-02-02	FIELD
5B	SL-225-SA5B-SB-2.0-3.0	DE101	SO	2011-03-09	FIELD
5B	SL-304-SA5B-SB-3.0-4.0	DE101	SO	2011-03-09	FIELD
	TB-030911	DE101	WQ	2011-03-09	FIELD
5B	SL-227-SA5B-SB-2.5-3.5	DE102	SO	2011-03-11	FIELD
	TB-031111	DE102	WQ	2011-03-11	FIELD
5B	SL-003-SA5B-SS-0.0-0.5	DX015	SO	2010-12-09	FIELD
5B	SL-004-SA5B-SS-0.0-0.5	DX015	SO	2010-12-09	FIELD
5B	SL-005-SA5B-SS-0.0-0.5	DX015	SO	2010-12-09	FIELD
5B	SL-026-SA5B-SS-0.0-0.5	DX015	SO	2010-12-08	FIELD
5B	SL-032-SA5B-SS-0.0-0.5	DX015	SO	2010-12-08	FIELD
5B	SL-038-SA5B-SS-0.0-0.5	DX015	SO	2010-12-08	FIELD
5B	SL-039-SA5B-SS-0.0-0.5	DX015	SO	2010-12-08	FIELD
5B	SL-230-SA5B-SS-0.0-0.5	DX015	SO	2010-12-09	FIELD
5B	SL-231-SA5B-SS-0.0-0.5	DX015	SO	2010-12-09	FIELD
5B	SL-280-SA5B-SS-0.0-0.5	DX015	SO	2010-12-08	FIELD
5B	SL-281-SA5B-SS-0.0-0.5	DX015	SO	2010-12-08	FIELD
5B	SL-282-SA5B-SS-0.0-0.5	DX015	SO	2010-12-08	FIELD
5B	SL-283-SA5B-SS-0.0-0.5	DX015	SO	2010-12-08	FIELD
5B	SL-292-SA5B-SS-0.0-0.5	DX015	SO	2010-12-09	FIELD
5B	SL-293-SA5B-SS-0.0-0.5	DX015	SO	2010-12-09	FIELD
5B	SL-295-SA5B-SS-0.0-0.5	DX015	SO	2010-12-08	FIELD
5B	SL-296-SA5B-SS-0.0-0.5	DX015	SO	2010-12-08	FIELD
5B	SL-297-SA5B-SS-0.0-0.5	DX015	SO	2010-12-08	FIELD
5B	SL-308-SA5B-SS-0.0-0.5	DX015	SO	2010-12-08	FIELD
5B	DUP01-SA5B-QC-120810	DX016	SO	2010-12-08	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	DUP02-SA5B-QC-120910	DX016	SO	2010-12-09	FIELD
5B	SL-001-SA5B-SS-0.0-0.5	DX016	SO	2010-12-09	FIELD
5B	SL-002-SA5B-SS-0.0-0.5	DX016	SO	2010-12-09	FIELD
5B	SL-006-SA5B-SS-0.0-0.5	DX016	SO	2010-12-09	FIELD
5B	SL-007-SA5B-SS-0.0-0.5	DX016	SO	2010-12-09	FIELD
5B	SL-010-SA5B-SS-0.0-0.5	DX016	SO	2010-12-09	FIELD
5B	SL-011-SA5B-SS-0.0-0.5	DX016	SO	2010-12-09	FIELD
5B	SL-012-SA5B-SS-0.0-0.5	DX016	SO	2010-12-09	FIELD
5B	SL-013-SA5B-SS-0.0-0.5	DX016	SO	2010-12-09	FIELD
5B	SL-014-SA5B-SS-0.0-0.5	DX016	SO	2010-12-09	FIELD
5B	SL-018-SA5B-SS-0.0-0.5	DX016	SO	2010-12-09	FIELD
5B	SL-020-SA5B-SS-0.0-0.5	DX016	SO	2010-12-09	FIELD
5B	SL-022-SA5B-SS-0.0-0.5	DX016	SO	2010-12-08	FIELD
5B	SL-031-SA5B-SS-0.0-0.5	DX016	SO	2010-12-08	FIELD
5B	SL-291-SA5B-SS-0.0-0.5	DX016	SO	2010-12-09	FIELD
5B	SL-294-SA5B-SS-0.0-0.5	DX016	SO	2010-12-08	FIELD
5B	SL-306-SA5B-SS-0.0-0.5	DX016	SO	2010-12-09	FIELD
5B	SL-307-SA5B-SS-0.0-0.5	DX016	SO	2010-12-08	FIELD
5B	SL-017-SA5B-SS-0.0-0.5	DX017	SO	2010-12-08	FIELD
5B	SL-029-SA5B-SS-0.0-0.5	DX017	SO	2010-12-08	FIELD
5B	SL-034-SA5B-SS-0.0-0.5	DX017	SO	2010-12-08	FIELD
5B	SL-035-SA5B-SS-0.0-0.5	DX017	SO	2010-12-08	FIELD
5B	SL-036-SA5B-SS-0.0-0.5	DX017	SO	2010-12-08	FIELD
5B	SL-008-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	SL-009-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	SL-048-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	SL-051-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	SL-059-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	SL-061-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	SL-062-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	SL-064-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	SL-065-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	SL-067-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	SL-070-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	SL-228-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	SL-229-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	SL-232-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	SL-233-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	SL-299-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	SL-300-SA5B-SS-0.0-0.5	DX018	SO	2010-12-10	FIELD
5B	DUP03-SA5B-QC-121010	DX019	SO	2010-12-10	FIELD
5B	SL-057-SA5B-SS-0.0-0.5	DX019	SO	2010-12-10	FIELD
5B	SL-234-SA5B-SS-0.0-0.5	DX019	SO	2010-12-10	FIELD
5B	SL-235-SA5B-SS-0.0-0.5	DX019	SO	2010-12-10	FIELD
5B	SL-287-SA5B-SS-0.0-0.5	DX019	SO	2010-12-10	FIELD
5B	SL-288-SA5B-SS-0.0-0.5	DX019	SO	2010-12-10	FIELD
5B	SL-290-SA5B-SS-0.0-0.5	DX019	SO	2010-12-10	FIELD
5B	DUP04-SA5B-QC-121310	DX020	SO	2010-12-13	FIELD
5B	SL-071-SA5B-SS-0.0-0.5	DX020	SO	2010-12-13	FIELD
5B	SL-072-SA5B-SS-0.0-0.5	DX020	SO	2010-12-13	FIELD
5B	SL-073-SA5B-SS-0.0-0.5	DX020	SO	2010-12-13	FIELD
5B	SL-074-SA5B-SS-0.0-0.5	DX020	SO	2010-12-13	FIELD
5B	SL-076-SA5B-SS-0.0-0.5	DX020	SO	2010-12-13	FIELD
5B	SL-078-SA5B-SS-0.0-0.5	DX020	SO	2010-12-13	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	SL-083-SA5B-SS-0.0-0.5	DX020	SO	2010-12-13	FIELD
5B	SL-084-SA5B-SS-0.0-0.5	DX020	SO	2010-12-13	FIELD
5B	SL-086-SA5B-SS-0.0-0.5	DX020	SO	2010-12-13	FIELD
5B	SL-089-SA5B-SS-0.0-0.5	DX020	SO	2010-12-13	FIELD
5B	SL-092-SA5B-SS-0.0-0.5	DX020	SO	2010-12-13	FIELD
5B	SL-103-SA5B-SS-0.0-0.5	DX020	SO	2010-12-13	FIELD
5B	SL-139-SA5B-SS-0.0-0.5	DX020	SO	2010-12-13	FIELD
5B	SL-236-SA5B-SS-0.0-0.5	DX020	SO	2010-12-13	FIELD
5B	SL-301-SA5B-SS-0.0-0.5	DX020	SO	2010-12-13	FIELD
5B	EB15-SA5B-121310	DX021	WQ	2010-12-13	FIELD
5B	SL-075-SA5B-SS-0.0-0.5	DX021	SO	2010-12-13	FIELD
5B	SL-077-SA5B-SS-0.0-0.5	DX021	SO	2010-12-13	FIELD
5B	SL-085-SA5B-SS-0.0-0.5	DX021	SO	2010-12-13	FIELD
5B	SL-087-SA5B-SS-0.0-0.5	DX021	SO	2010-12-13	FIELD
5B	SL-091-SA5B-SS-0.0-0.5	DX021	SO	2010-12-13	FIELD
5B	SL-095-SA5B-SS-0.0-0.5	DX021	SO	2010-12-13	FIELD
5B	DUP05-SA5B-QC-121410	DX022	SO	2010-12-14	FIELD
5B	SL-054-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-098-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-105-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-108-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-109-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-119-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-120-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-121-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-122-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-123-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-124-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-142-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-143-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-240-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-309-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-310-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-311-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	SL-312-SA5B-SS-0.0-0.5	DX022	SO	2010-12-14	FIELD
5B	EB02-SA5B-121410	DX023	WQ	2010-12-14	FIELD
5B	SL-125-SA5B-SS-0.0-0.5	DX023	SO	2010-12-14	FIELD
5B	SL-126-SA5B-SS-0.0-0.5	DX023	SO	2010-12-14	FIELD
5B	SL-128-SA5B-SS-0.0-0.5	DX023	SO	2010-12-14	FIELD
5B	SL-129-SA5B-SS-0.0-0.5	DX023	SO	2010-12-14	FIELD
5B	SL-131-SA5B-SS-0.0-0.5	DX024	SO	2010-12-15	FIELD
5B	SL-132-SA5B-SS-0.0-0.5	DX024	SO	2010-12-15	FIELD
5B	SL-133-SA5B-SS-0.0-0.5	DX024	SO	2010-12-15	FIELD
5B	SL-134-SA5B-SS-0.0-0.5	DX024	SO	2010-12-15	FIELD
5B	SL-135-SA5B-SS-0.0-0.5	DX024	SO	2010-12-15	FIELD
5B	SL-136-SA5B-SS-0.0-0.5	DX024	SO	2010-12-15	FIELD
5B	SL-149-SA5B-SS-0.0-0.5	DX024	SO	2010-12-15	FIELD
5B	SL-150-SA5B-SS-0.0-0.5	DX024	SO	2010-12-15	FIELD
5B	SL-153-SA5B-SS-0.0-0.5	DX024	SO	2010-12-15	FIELD
5B	SL-155-SA5B-SS-0.0-0.5	DX024	SO	2010-12-15	FIELD
5B	SL-156-SA5B-SS-0.0-0.5	DX024	SO	2010-12-15	FIELD
5B	SL-181-SA5B-SS-0.0-0.5	DX024	SO	2010-12-15	FIELD
5B	SL-203-SA5B-SS-0.0-0.5	DX024	SO	2010-12-15	FIELD
5B	SL-204-SA5B-SS-0.0-0.5	DX024	SO	2010-12-15	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	SL-257-SA5B-SS-0.0-0.5	DX024	SO	2010-12-15	FIELD
5B	DUP06-SA5B-QC-121510	DX025	SO	2010-12-15	FIELD
5B	EB03-SA5B-121510	DX025	WQ	2010-12-15	FIELD
5B	EB15-SA5B-121510	DX025	WQ	2010-12-15	FIELD
5B	SL-027-SA5B-SB-4.0-5.0	DX025	SO	2010-12-15	FIELD
5B	SL-027-SA5B-SB-8.0-9.0	DX025	SO	2010-12-15	FIELD
5B	SL-262-SA5B-SS-0.0-0.5	DX025	SO	2010-12-15	FIELD
5B	SL-263-SA5B-SS-0.0-0.5	DX025	SO	2010-12-15	FIELD
5B	SL-264-SA5B-SS-0.0-0.5	DX025	SO	2010-12-15	FIELD
5B	SL-297-SA5B-SB-4.0-5.0	DX025	SO	2010-12-15	FIELD
5B	SL-297-SA5B-SB-7.0-8.0	DX025	SO	2010-12-15	FIELD
5B	SL-298-SA5B-SB-4.0-5.0	DX025	SO	2010-12-15	FIELD
5B	SL-298-SA5B-SS-9.0-10.0	DX025	SO	2010-12-15	FIELD
5B	SL-302-SA5B-SS-0.0-0.5	DX025	SO	2010-12-15	FIELD
5B	SL-303-SA5B-SS-0.0-0.5	DX025	SO	2010-12-15	FIELD
5B	SL-147-SA5B-SS-0.0-0.5	DX026	SO	2010-12-16	FIELD
5B	SL-169-SA5B-SS-0.0-0.5	DX026	SO	2010-12-16	FIELD
5B	SL-172-SA5B-SS-0.0-0.5	DX026	SO	2010-12-16	FIELD
5B	SL-173-SA5B-SS-0.0-0.5	DX026	SO	2010-12-16	FIELD
5B	SL-176-SA5B-SS-0.0-0.5	DX026	SO	2010-12-16	FIELD
5B	SL-178-SA5B-SS-0.0-0.5	DX026	SO	2010-12-16	FIELD
5B	SL-186-SA5B-SS-0.0-0.5	DX026	SO	2010-12-16	FIELD
5B	SL-187-SA5B-SS-0.0-0.5	DX026	SO	2010-12-16	FIELD
5B	SL-189-SA5B-SS-0.0-0.5	DX026	SO	2010-12-16	FIELD
5B	SL-192-SA5B-SS-0.0-0.5	DX026	SO	2010-12-16	FIELD
5B	SL-194-SA5B-SS-0.0-0.5	DX026	SO	2010-12-16	FIELD
5B	SL-196-SA5B-SS-0.0-0.5	DX026	SO	2010-12-16	FIELD
5B	SL-198-SA5B-SS-0.0-0.5	DX026	SO	2010-12-16	FIELD
5B	SL-199-SA5B-SS-0.0-0.5	DX026	SO	2010-12-16	FIELD
5B	SL-202-SA5B-SS-0.0-0.5	DX026	SO	2010-12-16	FIELD
5B	DUP07-SA5B-QC-121610	DX027	SO	2010-12-16	FIELD
5B	EB04-SA5B-121610	DX027	WQ	2010-12-16	FIELD
5B	SL-040-SA5B-SB-1.5-2.5	DX027	SO	2010-12-16	FIELD
5B	SL-040-SA5B-SB-9.0-10.0	DX027	SO	2010-12-16	FIELD
5B	SL-041-SA5B-SB-1.5-2.5	DX027	SO	2010-12-16	FIELD
5B	SL-041-SA5B-SB-8.0-9.0	DX027	SO	2010-12-16	FIELD
5B	SL-042-SA5B-SB-2.5-3.5	DX027	SO	2010-12-16	FIELD
5B	SL-042-SA5B-SB-8.0-9.0	DX027	SO	2010-12-16	FIELD
5B	SL-043-SA5B-SB-2.5-3.5	DX027	SO	2010-12-16	FIELD
5B	SL-205-SA5B-SS-0.0-0.5	DX027	SO	2010-12-16	FIELD
5B	SL-284-SA5B-SS-0.0-0.5	DX027	SO	2010-12-16	FIELD
5B	SL-285-SA5B-SS-0.0-0.5	DX027	SO	2010-12-16	FIELD
5B	SL-286-SA5B-SS-0.0-0.5	DX027	SO	2010-12-16	FIELD
5B	SL-304-SA5B-SS-0.0-0.5	DX027	SO	2010-12-16	FIELD
5B	SL-160-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	SL-161-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	SL-162-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	SL-166-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	SL-206-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	SL-207-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	SL-208-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	SL-209-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	SL-210-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	SL-211-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	SL-272-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	SL-273-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	SL-274-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	SL-275-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	SL-276-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	SL-277-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	SL-278-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	SL-279-SA5B-SS-0.0-0.5	DX028	SO	2010-12-17	FIELD
5B	DUP08-SA5B-QC-121710	DX029	SO	2010-12-17	FIELD
5B	EB05-SA5B-121710	DX029	WQ	2010-12-17	FIELD
5B	SL-026-SA5B-SB-4.0-5.0	DX029	SO	2010-12-17	FIELD
5B	SL-026-SA5B-SB-9.0-10	DX029	SO	2010-12-17	FIELD
5B	SL-281-SA5B-SB-4.0-5.0	DX029	SO	2010-12-17	FIELD
5B	SL-281-SA5B-SB-8.0-9.0	DX029	SO	2010-12-17	FIELD
5B	SL-282-SA5B-SB-4.0-5.0	DX029	SO	2010-12-17	FIELD
5B	SL-282-SA5B-SB-7.0-8.0	DX029	SO	2010-12-17	FIELD
5B	DUP09-SA5B-QC-122010	DX030	SO	2010-12-20	FIELD
5B	EB06-SA5B-122010	DX030	WQ	2010-12-20	FIELD
5B	SL-212-SA5B-SS-0.0-0.5	DX030	SO	2010-12-20	FIELD
5B	SL-213-SA5B-SS-0.0-0.5	DX030	SO	2010-12-20	FIELD
5B	SL-214-SA5B-SS-0.0-0.5	DX030	SO	2010-12-20	FIELD
5B	SL-215-SA5B-SS-0.0-0.5	DX030	SO	2010-12-20	FIELD
5B	SL-216-SA5B-SS-0.0-0.5	DX030	SO	2010-12-20	FIELD
5B	SL-217-SA5B-SS-0.0-0.5	DX030	SO	2010-12-20	FIELD
5B	SL-255-SA5B-SS-0.0-0.5	DX030	SO	2010-12-20	FIELD
5B	DUP14-SA5B-QC-122010	DX031	SO	2010-12-20	FIELD
5B	SL-044-SA5B-SB-4.0-5.0	DX031	SO	2010-12-20	FIELD
5B	SL-044-SA5B-SB-7.0-8.0	DX031	SO	2010-12-20	FIELD
5B	SL-045-SA5B-SB-3.0-4.0	DX031	SO	2010-12-20	FIELD
5B	DUP15-SA5B-QC-122110	DX032	SO	2010-12-21	FIELD
5B	EB07-SA5B-122110	DX032	WQ	2010-12-21	FIELD
5B	SL-006-SA5B-SB-4.0-5.0	DX032	SO	2010-12-21	FIELD
5B	SL-006-SA5B-SB-5.0-6.0	DX032	SO	2010-12-21	FIELD
5B	SL-046-SA5B-SB-4.0-5.0	DX032	SO	2010-12-21	FIELD
5B	SL-046-SA5B-SB-9.0-10.0	DX032	SO	2010-12-21	FIELD
5B	SL-047-SA5B-SB-4.0-5.0	DX032	SO	2010-12-21	FIELD
5B	SL-159-SA5B-SS-0.0-0.5	DX032	SO	2010-12-21	FIELD
5B	SL-183-SA5B-SS-0.0-0.5	DX032	SO	2010-12-21	FIELD
5B	SL-219-SA5B-SS-0.0-0.5	DX032	SO	2010-12-21	FIELD
5B	SL-225-SA5B-SS-0.0-0.5	DX032	SO	2010-12-21	FIELD
5B	SL-226-SA5B-SS-0.0-0.5	DX032	SO	2010-12-21	FIELD
5B	SL-227-SA5B-SS-0.0-0.5	DX032	SO	2010-12-21	FIELD
5B	DUP10-SA5B-QC-122210	DX034	SO	2010-12-22	FIELD
5B	EB08-SA5B-122210	DX034	WQ	2010-12-22	FIELD
5B	FB06-SA5B-122210	DX034	WQ	2010-12-22	FIELD
5B	SL-024-SA5B-SS-0.0-0.5	DX034	SO	2010-12-22	FIELD
5B	SL-100-SA5B-SS-0.0-0.5	DX034	SO	2010-12-22	FIELD
5B	SL-101-SA5B-SS-0.0-0.5	DX034	SO	2010-12-22	FIELD
5B	SL-102-SA5B-SS-0.0-0.5	DX034	SO	2010-12-22	FIELD
5B	SL-114-SA5B-SS-0.0-0.5	DX034	SO	2010-12-22	FIELD
5B	SL-117-SA5B-SS-0.0-0.5	DX034	SO	2010-12-22	FIELD
5B	SL-118-SA5B-SS-0.0-0.5	DX034	SO	2010-12-22	FIELD
5B	SL-145-SA5B-SB-4.0-5.0	DX034	SO	2010-12-22	FIELD
5B	SL-157-SA5B-SB-4.0-5.0	DX034	SO	2010-12-22	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	SL-157-SA5B-SB-9.0-10.0	DX034	SO	2010-12-22	FIELD
5B	SL-158-SA5B-SB-4.0-5.0	DX034	SO	2010-12-22	FIELD
5B	SL-027-SA5B-SS-0.0-0.5	DX035	SO	2011-01-05	FIELD
5B	SL-065-SA5B-SB-4.0-5.0	DX035	SO	2011-01-05	FIELD
5B	SL-065-SA5B-SB-9.0-10.0	DX035	SO	2011-01-05	FIELD
5B	SL-067-SA5B-SB-3.5-4.5	DX035	SO	2011-01-05	FIELD
5B	SL-068-SA5B-SB-3.0-4.0	DX035	SO	2011-01-05	FIELD
5B	SL-069-SA5B-SB-3.0-4.0	DX035	SO	2011-01-05	FIELD
5B	SL-070-SA5B-SB-2.5-3.5	DX035	SO	2011-01-05	FIELD
5B	SL-140-SA5B-SS-0.0-0.5	DX035	SO	2011-01-04	FIELD
5B	SL-146-SA5B-SB-4.0-5.0	DX035	SO	2011-01-04	FIELD
5B	SL-259-SA5B-SB-4.0-5.0	DX035	SO	2011-01-04	FIELD
5B	SL-298-SA5B-SS-0.0-0.5	DX035	SO	2011-01-05	FIELD
5B	DUP16-SA5B-QC-010611	DX036	SO	2011-01-06	FIELD
5B	EB18-SA5B-010611	DX036	WQ	2011-01-06	FIELD
5B	SL-050-SA5B-SB-3.0-4.0	DX036	SO	2011-01-06	FIELD
5B	SL-051-SA5B-SB-3.0-4.0	DX036	SO	2011-01-06	FIELD
5B	SL-055-SA5B-SB-4.0-5.0	DX036	SO	2011-01-07	FIELD
5B	SL-055-SA5B-SB-8.5-9.5	DX036	SO	2011-01-07	FIELD
5B	SL-056-SA5B-SB-4.0-5.0	DX036	SO	2011-01-07	FIELD
5B	SL-056-SA5B-SB-9.0-10.0	DX036	SO	2011-01-07	FIELD
5B	SL-058-SA5B-SB-4.0-5.0	DX036	SO	2011-01-06	FIELD
5B	SL-059-SA5B-SB-4.0-5.0	DX036	SO	2011-01-07	FIELD
5B	SL-059-SA5B-SB-8.5-9.5	DX036	SO	2011-01-07	FIELD
5B	SL-060-SA5B-SB-4.0-5.0	DX036	SO	2011-01-07	FIELD
5B	SL-060-SA5B-SB-9.0-10.0	DX036	SO	2011-01-07	FIELD
5B	SL-061-SA5B-SB-3.5-4.5	DX036	SO	2011-01-07	FIELD
5B	SL-062-SA5B-SB-4.0-5.0	DX036	SO	2011-01-07	FIELD
5B	SL-062-SA5B-SB-9.0-10.0	DX036	SO	2011-01-07	FIELD
5B	SL-063-SA5B-SB-3.0-4.0	DX036	SO	2011-01-06	FIELD
5B	SL-066-SA5B-SB-3.0-4.0	DX036	SO	2011-01-06	FIELD
5B	SL-137-SA5B-SS-0.0-0.5	DX036	SO	2011-01-06	FIELD
5B	SL-234-SA5B-SB-2.5-3.5	DX036	SO	2011-01-07	FIELD
5B	DUP18-SA5B-QC-011211	DX037	SO	2011-01-12	FIELD
5B	SL-053-SA5B-SB-1.8-2.8	DX037	SO	2011-01-10	FIELD
5B	SL-054-SA5B-SB-3.0-4.0	DX037	SO	2011-01-10	FIELD
5B	SL-073-SA5B-SB-4.0-5.0	DX037	SO	2011-01-13	FIELD
5B	SL-074-SA5B-SB-4.0-5.0	DX037	SO	2011-01-13	FIELD
5B	SL-074-SA5B-SB-7.0-8.0	DX037	SO	2011-01-13	FIELD
5B	SL-095-SA5B-SB-4.0-5.0	DX037	SO	2011-01-12	FIELD
5B	SL-096-SA5B-SB-2.0-3.0	DX037	SO	2011-01-12	FIELD
5B	SL-105-SA5B-SB-4.0-5.0	DX037	SO	2011-01-10	FIELD
5B	SL-106-SA5B-SB-4.0-5.0	DX037	SO	2011-01-10	FIELD
5B	SL-107-SA5B-SB-4.0-5.0	DX037	SO	2011-01-10	FIELD
5B	SL-108-SA5B-SB-4.0-5.0	DX037	SO	2011-01-10	FIELD
5B	SL-109-SA5B-SB-4.0-5.0	DX037	SO	2011-01-10	FIELD
5B	SL-110-SA5B-SB-4.0-5.0	DX037	SO	2011-01-10	FIELD
5B	SL-111-SA5B-SB-4.0-5.0	DX037	SO	2011-01-10	FIELD
5B	SL-111-SA5B-SB-9.0-10.0	DX037	SO	2011-01-10	FIELD
5B	SL-240-SA5B-SB-4.0-5.0	DX037	SO	2011-01-10	FIELD
5B	SL-240-SA5B-SB-9.0-10.0	DX037	SO	2011-01-10	FIELD
5B	SL-301-SA5B-SB-4.0-5.0	DX037	SO	2011-01-13	FIELD
5B	SL-301-SA5B-SB-7.5-8.5	DX037	SO	2011-01-13	FIELD
5B	EB20-SA5B-011311	DX038	WQ	2011-01-13	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	EB21-SA5B-011311	DX038	WQ	2011-01-13	FIELD
5B	SL-085-SA5B-SB-3.0-4.0	DX038	SO	2011-01-11	FIELD
5B	SL-086-SA5B-SB-4.0-5.0	DX038	SO	2011-01-11	FIELD
5B	SL-087-SA5B-SB-3.0-4.0	DX038	SO	2011-01-11	FIELD
5B	SL-088-SA5B-SB-3.0-4.0	DX038	SO	2011-01-11	FIELD
5B	SL-089-SA5B-SB-4.0-5.0	DX038	SO	2011-01-11	FIELD
5B	SL-090-SA5B-SB-2.5-3.5	DX038	SO	2011-01-11	FIELD
5B	SL-091-SA5B-SB-4.0-5.0	DX038	SO	2011-01-11	FIELD
5B	SL-093-SA5B-SB-3.0-4.0	DX038	SO	2011-01-11	FIELD
5B	SL-094-SA5B-SB-4.0-5.0	DX038	SO	2011-01-11	FIELD
5B	SL-099-SA5B-SB-4.0-5.0	DX038	SO	2011-01-11	FIELD
5B	SL-100-SA5B-SB-4.0-5.0	DX038	SO	2011-01-11	FIELD
5B	SL-119-SA5B-SB-3.0-4.0	DX038	SO	2011-01-13	FIELD
5B	SL-120-SA5B-SB-3.0-4.0	DX038	SO	2011-01-13	FIELD
5B	SL-121-SA5B-SB-4.0-5.0	DX038	SO	2011-01-13	FIELD
5B	SL-121-SA5B-SB-9.0-10.0	DX038	SO	2011-01-13	FIELD
5B	SL-122-SA5B-SB-2.0-3.0	DX038	SO	2011-01-13	FIELD
5B	DUP17-SA5B-QC-011211	DX039	SO	2011-01-12	FIELD
5B	SL-071-SA5B-SB-2.0-3.0	DX039	SO	2011-01-12	FIELD
5B	SL-072-SA5B-SB-4.0-5.0	DX039	SO	2011-01-12	FIELD
5B	SL-081-SA5B-SB-2.5-3.5	DX039	SO	2011-01-14	FIELD
5B	SL-081-SA5B-SB-6.0-7.0	DX039	SO	2011-01-14	FIELD
5B	SL-083-SA5B-SB-4.0-5.0	DX039	SO	2011-01-14	FIELD
5B	SL-092-SA5B-SB-4.0-5.0	DX039	SO	2011-01-12	FIELD
5B	SL-097-SA5B-SB-4.0-5.0	DX039	SO	2011-01-12	FIELD
5B	SL-097-SA5B-SB-7.0-8.0	DX039	SO	2011-01-12	FIELD
5B	SL-098-SA5B-SB-4.0-5.0	DX039	SO	2011-01-12	FIELD
5B	SL-103-SA5B-SB-4.0-5.0	DX039	SO	2011-01-12	FIELD
5B	SL-103-SA5B-SB-9.0-10.0	DX039	SO	2011-01-12	FIELD
5B	SL-104-SA5B-SB-4.0-5.0	DX039	SO	2011-01-12	FIELD
5B	SL-104-SA5B-SB-9.0-10.0	DX039	SO	2011-01-12	FIELD
5B	SL-124-SA5B-SB-4.0-5.0	DX039	SO	2011-01-14	FIELD
5B	SL-124-SA5B-SB-7.5-8.5	DX039	SO	2011-01-14	FIELD
5B	SL-125-SA5B-SB-4.0-5.0	DX039	SO	2011-01-14	FIELD
5B	SL-126-SA5B-SB-2.0-3.0	DX039	SO	2011-01-14	FIELD
5B	SL-128-SA5B-SB-4.0-5.0	DX039	SO	2011-01-14	FIELD
5B	SL-129-SA5B-SB-2.0-3.0	DX039	SO	2011-01-14	FIELD
5B	SL-022-SA5B-SB-2.0-3.0	DX040	SO	2011-01-19	FIELD
5B	SL-024-SA5B-SB-4.0-5.0	DX040	SO	2011-01-19	FIELD
5B	SL-024-SA5B-SB-9.0-10.0	DX040	SO	2011-01-19	FIELD
5B	SL-025-SA5B-SB-4.0-5.0	DX040	SO	2011-01-19	FIELD
5B	SL-025-SA5B-SB-9.0-10.0	DX040	SO	2011-01-19	FIELD
5B	SL-039-SA5B-SB-4.0-5.0	DX040	SO	2011-01-17	FIELD
5B	SL-039-SA5B-SB-9.0-10.0	DX040	SO	2011-01-17	FIELD
5B	SL-048-SA5B-SB-4.0-5.0	DX040	SO	2011-01-19	FIELD
5B	SL-048-SA5B-SB-9.0-10.0	DX040	SO	2011-01-19	FIELD
5B	SL-078-SA5B-SB-4.0-5.0	DX040	SO	2011-01-17	FIELD
5B	SL-082-SA5B-SB-2.25-3.25	DX040	SO	2011-01-17	FIELD
5B	SL-082-SA5B-SB-7.0-8.0	DX040	SO	2011-01-17	FIELD
5B	SL-101-SA5B-SB-4.0-5.0	DX040	SO	2011-01-17	FIELD
5B	SL-101-SA5B-SB-7.5-8.5	DX040	SO	2011-01-17	FIELD
5B	SL-112-SA5B-SB-4.0-5.0	DX040	SO	2011-01-17	FIELD
5B	SL-113-SA5B-SB-4.0-5.0	DX040	SO	2011-01-17	FIELD
5B	SL-117-SA5B-SB-4.0-5.0	DX040	SO	2011-01-17	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	SL-287-SA5B-SB-4.0-5.0	DX040	SO	2011-01-19	FIELD
5B	SL-287-SA5B-SB-9.0-10.0	DX040	SO	2011-01-19	FIELD
5B	SL-031-SA5B-SB-4.0-5.0	DX041	SO	2011-01-19	FIELD
5B	SL-031-SA5B-SB-9.0-10.0	DX041	SO	2011-01-19	FIELD
5B	SL-049-SA5B-SB-4.0-5.0	DX041	SO	2011-01-19	FIELD
5B	SL-049-SA5B-SB-9.0-10.0	DX041	SO	2011-01-19	FIELD
5B	SL-114-SA5B-SB-4.0-5.0	DX041	SO	2011-01-18	FIELD
5B	SL-115-SA5B-SB-4.0-5.0	DX041	SO	2011-01-18	FIELD
5B	SL-116-SA5B-SB-4.0-5.0	DX041	SO	2011-01-18	FIELD
5B	SL-118-SA5B-SB-4.0-5.0	DX041	SO	2011-01-18	FIELD
5B	SL-118-SA5B-SB-8.0-9.0	DX041	SO	2011-01-18	FIELD
5B	SL-280-SA5B-SB-4.0-5.0	DX041	SO	2011-01-18	FIELD
5B	SL-280-SA5B-SB-9.0-10.0	DX041	SO	2011-01-18	FIELD
5B	SL-283-SA5B-SB-4.0-5.0	DX041	SO	2011-01-18	FIELD
5B	SL-283-SA5B-SB-9.0-10.0	DX041	SO	2011-01-18	FIELD
5B	SL-295-SA5B-SB-4.0-5.0	DX041	SO	2011-01-18	FIELD
5B	SL-295-SA5B-SB-9.0-10.0	DX041	SO	2011-01-18	FIELD
5B	SL-296-SA5B-SB-4.0-5.0	DX041	SO	2011-01-18	FIELD
5B	SL-296-SA5B-SB-9.0-10.0	DX041	SO	2011-01-18	FIELD
5B	DUP19-SA5B-QC-012011	DX042	SO	2011-01-20	FIELD
5B	EB23-SA5B-012011	DX042	WQ	2011-01-20	FIELD
5B	EB24-SA5B-012011	DX042	WQ	2011-01-20	FIELD
5B	SL-014-SA5B-SB-4.0-5.0	DX042	SO	2011-01-20	FIELD
5B	SL-019-SA5B-SB-4.0-5.0	DX042	SO	2011-01-20	FIELD
5B	SL-029-SA5B-SB-4.0-5.0	DX042	SO	2011-01-20	FIELD
5B	SL-029-SA5B-SB-9.0-10.0	DX042	SO	2011-01-20	FIELD
5B	SL-030-SA5B-SB-4.0-5.0	DX042	SO	2011-01-20	FIELD
5B	SL-030-SA5B-SB-9.0-10.0	DX042	SO	2011-01-20	FIELD
5B	SL-034-SA5B-SB-4.0-5.0	DX042	SO	2011-01-20	FIELD
5B	SL-034-SA5B-SB-9.0-10.0	DX042	SO	2011-01-20	FIELD
5B	SL-035-SA5B-SB-4.0-5.0	DX042	SO	2011-01-20	FIELD
5B	SL-035-SA5B-SB-7.0-8.0	DX042	SO	2011-01-20	FIELD
5B	SL-036-SA5B-SB-4.0-5.0	DX042	SO	2011-01-20	FIELD
5B	SL-037-SA5B-SB-3.5-4.5	DX042	SO	2011-01-20	FIELD
5B	SL-294-SA5B-SB-4.0-5.0	DX042	SO	2011-01-20	FIELD
5B	SL-294-SA5B-SB-9.0-10.0	DX042	SO	2011-01-20	FIELD
5B	DUP20-SA5B-QC-012111	DX043	SO	2011-01-21	FIELD
5B	SL-032-SA5B-SB-14.0-15.0	DX043	SO	2011-01-24	FIELD
5B	SL-032-SA5B-SB-4.0-5.0	DX043	SO	2011-01-24	FIELD
5B	SL-032-SA5B-SB-9.0-10.0	DX043	SO	2011-01-24	FIELD
5B	SL-033-SA5B-SB-14.0-15.0	DX043	SO	2011-01-24	FIELD
5B	SL-033-SA5B-SB-4.0-5.0	DX043	SO	2011-01-24	FIELD
5B	SL-033-SA5B-SB-9.0-10.0	DX043	SO	2011-01-24	FIELD
5B	SL-151-SA5B-SB-4.0-5.0	DX043	SO	2011-01-24	FIELD
5B	SL-151-SA5B-SB-7.0-8.0	DX043	SO	2011-01-24	FIELD
5B	SL-152-SA5B-SB-4.0-5.0	DX043	SO	2011-01-24	FIELD
5B	SL-152-SA5B-SB-9.0-10.0	DX043	SO	2011-01-24	FIELD
5B	SL-253-SA5B-SB-3.0-4.0	DX043	SO	2011-01-21	FIELD
5B	SL-254-SA5B-SB-3.5-4.5	DX043	SO	2011-01-21	FIELD
5B	SL-307-SA5B-SB-14.0-15.0	DX043	SO	2011-01-21	FIELD
5B	SL-307-SA5B-SB-4.0-5.0	DX043	SO	2011-01-21	FIELD
5B	SL-307-SA5B-SB-9.0-10.0	DX043	SO	2011-01-21	FIELD
5B	SL-308-SA5B-SB-14.0-15.0	DX043	SO	2011-01-21	FIELD
5B	SL-308-SA5B-SB-4.0-5.0	DX043	SO	2011-01-21	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	SL-308-SA5B-SB-9.0-10.0	DX043	SO	2011-01-21	FIELD
5B	DUP21-SA5B-QC-013111	DX044	SO	2011-01-31	FIELD
5B	EB26-SA5B-012611	DX044	WQ	2011-01-26	FIELD
5B	SL-015-SA5B-SB-4.0-5.0	DX044	SO	2011-01-26	FIELD
5B	SL-016-SA5B-SB-4.0-5.0	DX044	SO	2011-01-26	FIELD
5B	SL-016-SA5B-SB-9.0-10.0	DX044	SO	2011-01-26	FIELD
5B	SL-018-SA5B-SB-4.0-5.0	DX044	SO	2011-01-26	FIELD
5B	SL-018-SA5B-SB-9.0-10.0	DX044	SO	2011-01-26	FIELD
5B	SL-148-SA5B-SB-4.0-5.0	DX044	SO	2011-01-25	FIELD
5B	SL-149-SA5B-SB-3.5-4.5	DX044	SO	2011-01-25	FIELD
5B	SL-150-SA5B-SB-4.0-5.0	DX044	SO	2011-01-25	FIELD
5B	SL-153-SA5B-SB-4.0-5.0	DX044	SO	2011-01-24	FIELD
5B	SL-154-SA5B-SB-4.0-5.0	DX044	SO	2011-01-24	FIELD
5B	SL-155-SA5B-SB-3.5-4.5	DX044	SO	2011-01-24	FIELD
5B	SL-156-SA5B-SB-4.0-5.0	DX044	SO	2011-01-25	FIELD
5B	SL-180-SA5B-SB-4.0-5.0	DX044	SO	2011-01-26	FIELD
5B	SL-180-SA5B-SB-9.0-10.0	DX044	SO	2011-01-26	FIELD
5B	SL-182-SA5B-SB-4.0-5.0	DX044	SO	2011-01-31	FIELD
5B	SL-204-SA5B-SB-4.0-5.0	DX044	SO	2011-01-31	FIELD
5B	SL-262-SA5B-SB-4.0-5.0	DX044	SO	2011-01-26	FIELD
5B	SL-263-SA5B-SB-2.0-3.0	DX044	SO	2011-01-26	FIELD
5B	EB27-SA5B-012711	DX045	WQ	2011-01-27	FIELD
5B	SL-017-SA5B-SB-4.0-5.0	DX045	SO	2011-01-27	FIELD
5B	SL-017-SA5B-SB-9.0-10.0	DX045	SO	2011-01-27	FIELD
5B	SL-021-SA5B-SB-4.0-5.0	DX045	SO	2011-01-27	FIELD
5B	SL-021-SA5B-SB-9.0-10.0	DX045	SO	2011-01-27	FIELD
5B	SL-178-SA5B-SB-4.0-5.0	DX045	SO	2011-01-28	FIELD
5B	SL-179-SA5B-SB-4.0-5.0	DX045	SO	2011-01-28	FIELD
5B	SL-179-SA5B-SB-7.0-8.0	DX045	SO	2011-01-28	FIELD
5B	SL-181-SA5B-SB-4.0-5.0	DX045	SO	2011-01-27	FIELD
5B	SL-183-SA5B-SB-4.0-5.0	DX045	SO	2011-01-28	FIELD
5B	SL-184-SA5B-SB-3.0-4.0	DX045	SO	2011-01-28	FIELD
5B	SL-185-SA5B-SB-4.0-5.0	DX045	SO	2011-01-27	FIELD
5B	SL-186-SA5B-SB-4.0-5.0	DX045	SO	2011-01-27	FIELD
5B	SL-192-SA5B-SB-4.0-5.0	DX045	SO	2011-01-27	FIELD
5B	SL-193-SA5B-SB-4.0-5.0	DX045	SO	2011-01-28	FIELD
5B	SL-194-SA5B-SB-4.0-5.0	DX045	SO	2011-01-28	FIELD
5B	SL-196-SA5B-SB-4.0-5.0	DX045	SO	2011-01-28	FIELD
5B	SL-201-SA5B-SB-4.0-5.0	DX045	SO	2011-01-28	FIELD
5B	SL-201-SA5B-SB-9.0-10.0	DX045	SO	2011-01-28	FIELD
5B	SL-203-SA5B-SB-4.0-5.0	DX045	SO	2011-01-27	FIELD
5B	SL-203-SA5B-SB-7.5-8.5	DX045	SO	2011-01-27	FIELD
5B	DUP22-SA5B-QC-013111	DX046	SO	2011-01-31	FIELD
5B	SL-175-SA5B-SB-4.0-5.0	DX046	SO	2011-01-31	FIELD
5B	SL-176-SA5B-SB-4.0-5.0	DX046	SO	2011-01-31	FIELD
5B	SL-177-SA5B-SB-4.0-5.0	DX046	SO	2011-01-31	FIELD
5B	SL-187-SA5B-SB-4.0-5.0	DX046	SO	2011-02-01	FIELD
5B	SL-188-SA5B-SB-4.0-5.0	DX046	SO	2011-02-01	FIELD
5B	SL-189-SA5B-SB-3.0-4.0	DX046	SO	2011-02-01	FIELD
5B	SL-190-SA5B-SB-4.0-5.0	DX046	SO	2011-02-01	FIELD
5B	SL-191-SA5B-SB-4.0-5.0	DX046	SO	2011-02-01	FIELD
5B	SL-195-SA5B-SB-4.0-5.0	DX046	SO	2011-01-31	FIELD
5B	SL-197-SA5B-SB-4.0-5.0	DX046	SO	2011-01-31	FIELD
5B	SL-198-SA5B-SB-4.0-5.0	DX046	SO	2011-01-31	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	SL-199-SA5B-SB-4.0-5.0	DX046	SO	2011-01-31	FIELD
5B	SL-200-SA5B-SB-4.0-5.0	DX046	SO	2011-01-31	FIELD
5B	SL-202-SA5B-SB-4.0-5.0	DX046	SO	2011-01-28	FIELD
5B	SL-202-SA5B-SB-7.0-8.0	DX046	SO	2011-01-28	FIELD
5B	SL-276-SA5B-SB-4.0-5.0	DX046	SO	2011-02-01	FIELD
5B	SL-277-SA5B-SB-2.5-3.5	DX046	SO	2011-02-01	FIELD
5B	SL-278-SA5B-SB-2.0-3.0	DX046	SO	2011-02-01	FIELD
5B	SL-279-SA5B-SB-2.5-3.5	DX046	SO	2011-02-01	FIELD
5B	EB28-SA5B-020311	DX047	WQ	2011-02-03	FIELD
5B	EB29-SA5B-020311	DX047	WQ	2011-02-03	FIELD
5B	SL-159-SA5B-SB-4.0-5.0	DX047	SO	2011-02-04	FIELD
5B	SL-159-SA5B-SB-8.0-9.0	DX047	SO	2011-02-04	FIELD
5B	SL-165-SA5B-SB-4.0-5.0	DX047	SO	2011-02-04	FIELD
5B	SL-172-SA5B-SB-2.0-3.0	DX047	SO	2011-02-02	FIELD
5B	SL-173-SA5B-SB-2.0-3.0	DX047	SO	2011-02-02	FIELD
5B	SL-205-SA5B-SB-2.5-3.5	DX047	SO	2011-02-03	FIELD
5B	SL-207-SA5B-SB-2.5-3.5	DX047	SO	2011-02-03	FIELD
5B	SL-209-SA5B-SB-4.0-5.0	DX047	SO	2011-02-02	FIELD
5B	SL-210-SA5B-SB-4.0-5.0	DX047	SO	2011-02-03	FIELD
5B	SL-211-SA5B-SB-4.0-5.0	DX047	SO	2011-02-03	FIELD
5B	SL-229-SA5B-SB-2.0-3.0	DX047	SO	2011-02-03	FIELD
5B	SL-230-SA5B-SB-2.0-3.0	DX047	SO	2011-02-03	FIELD
5B	SL-272-SA5B-SB-4.0-5.0	DX047	SO	2011-02-04	FIELD
5B	SL-273-SA5B-SB-2.0-3.0	DX047	SO	2011-02-04	FIELD
5B	SL-274-SA5B-SB-4.0-5.0	DX047	SO	2011-02-03	FIELD
5B	SL-275-SA5B-SB-3.5-4.5	DX047	SO	2011-02-02	FIELD
5B	DUP24-SA5B-QC-021011	DX048	SO	2011-02-10	FIELD
5B	EB31-SA5B-021011	DX048	WQ	2011-02-10	FIELD
5B	SL-160-SA5B-SB-4.0-5.0	DX048	SO	2011-02-07	FIELD
5B	SL-161-SA5B-SB-4.0-5.0	DX048	SO	2011-02-07	FIELD
5B	SL-162-SA5B-SB-4.0-5.0	DX048	SO	2011-02-07	FIELD
5B	SL-163-SA5B-SB-3.5-4.5	DX048	SO	2011-02-07	FIELD
5B	SL-164-SA5B-SB-4.0-5.0	DX048	SO	2011-02-08	FIELD
5B	SL-168-SA5B-SB-4.0-5.0	DX048	SO	2011-02-08	FIELD
5B	SL-313-SA5B-SB-4.0-5.0	DX048	SO	2011-02-08	FIELD
5B	SL-313-SA5B-SB-9.0-10.0	DX048	SO	2011-02-08	FIELD
5B	SL-314-SA5B-SB-4.0-5.0	DX048	SO	2011-02-08	FIELD
5B	SL-315-SA5B-SB-3.0-4.0	DX048	SO	2011-02-10	FIELD
5B	SL-315-SA5B-SS-0.0-0.5	DX048	SO	2011-02-08	FIELD
5B	SL-316-SA5B-SS-0.0-0.5	DX048	SO	2011-02-08	FIELD
5B	SL-319-SA5B-SB-4.0-5.0	DX048	SO	2011-02-10	FIELD
5B	SL-321-SA5B-SS-0.0-0.5	DX048	SO	2011-02-10	FIELD
5B	SL-327-SA5B-SS-0.0-0.5	DX048	SO	2011-02-08	FIELD
5B	SL-328-SA5B-SS-0.0-0.5	DX048	SO	2011-02-08	FIELD
5B	SL-314-SA5B-SS-0.0-0.5	DX049	SO	2011-02-09	FIELD
5B	SL-316-SA5B-SB-4.5-5.5	DX049	SO	2011-02-09	FIELD
5B	SL-319-SA5B-SS-0.0-0.5	DX049	SO	2011-02-09	FIELD
5B	SL-322-SA5B-SS-0.0-0.5	DX049	SO	2011-02-10	FIELD
5B	SL-323-SA5B-SS-0.0-0.5	DX049	SO	2011-02-09	FIELD
5B	SL-324-SA5B-SS-0.0-0.5	DX049	SO	2011-02-09	FIELD
5B	SL-326-SA5B-SB-14.0-15.0	DX049	SO	2011-02-10	FIELD
5B	SL-326-SA5B-SB-18.5-19.5	DX049	SO	2011-02-10	FIELD
5B	SL-326-SA5B-SB-9.0-10.0	DX049	SO	2011-02-10	FIELD
5B	SL-326-SA5B-SS-0.0-0.5	DX049	SO	2011-02-09	FIELD

Appendix C. Samples by SDG for 5B

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5B	SL-328-SA5B-SB-3.5-4.5	DX049	SO	2011-02-09	FIELD
5B	SL-329-SA5B-SS-0.0-0.5	DX049	SO	2011-02-10	FIELD
5B	SL-330-SA5B-SS-0.0-0.5	DX049	SO	2011-02-10	FIELD
5B	SL-331-SA5B-SS-0.0-0.5	DX049	SO	2011-02-10	FIELD
5B	SL-332-SA5B-SS-0.0-0.5	DX049	SO	2011-02-10	FIELD
5B	SL-333-SA5B-SS-0.0-0.5	DX049	SO	2011-02-10	FIELD
5B	DUP23-SA5B-QC-021511	DX050	SO	2011-02-15	FIELD
5B	EB30-SA5B-021511	DX050	WQ	2011-02-15	FIELD
5B	SL-049-SA5B-SS-0.0-0.5	DX050	SO	2011-02-11	FIELD
5B	SL-138-SA5B-SS-0.0-0.5	DX050	SO	2011-02-11	FIELD
5B	SL-141-SA5B-SS-0.0-0.5	DX050	SO	2011-02-11	FIELD
5B	SL-144-SA5B-SS-0.0-0.5	DX050	SO	2011-02-11	FIELD
5B	SL-253-SA5B-SS-0.0-0.5	DX050	SO	2011-02-11	FIELD
5B	SL-254-SA5B-SS-0.0-0.5	DX050	SO	2011-02-11	FIELD
5B	SL-289-SA5B-SS-0.0-0.5	DX050	SO	2011-02-11	FIELD
5B	SL-323-SA5B-SB-11.0-12.0	DX050	SO	2011-02-15	FIELD
5B	SL-323-SA5B-SB-4.0-5.0	DX050	SO	2011-02-15	FIELD
5B	SL-324-SA5B-SB-4.0-5.0	DX050	SO	2011-02-14	FIELD
5B	SL-324-SA5B-SB-8.0-9.0	DX050	SO	2011-02-14	FIELD
5B	SL-327-SA5B-SB-4.0-5.0	DX050	SO	2011-02-15	FIELD
5B	SL-329-SA5B-SB-4.0-5.0	DX050	SO	2011-02-15	FIELD
5B	SL-330-SA5B-SB-4.0-5.0	DX050	SO	2011-02-15	FIELD
5B	SL-334-SA5B-SS-0.0-0.5	DX050	SO	2011-02-10	FIELD
5B	SL-335-SA5B-SS-0.0-0.5	DX050	SO	2011-02-10	FIELD
5B	SL-332-SA5B-SB-4.0-5.0	DX051	SO	2011-02-16	FIELD
5B	SL-333-SA5B-SB-4.0-5.0	DX051	SO	2011-02-16	FIELD
5B	SL-335-SA5B-SB-2.0-3.0	DX051	SO	2011-02-16	FIELD
5B	SL-321-SA5B-SB-3.0-4.0	DX052	SO	2011-02-17	FIELD
5B	SL-322-SA5B-SB-3.0-4.0	DX052	SO	2011-02-17	FIELD
5B	SL-331-SA5B-SB-3.0-4.0	DX052	SO	2011-02-17	FIELD
5B	SL-336-SA5B-SB-4.0-5.0	DX052	SO	2011-02-17	FIELD
5B	SL-337-SA5B-SB-3.0-4.0	DX052	SO	2011-02-17	FIELD
5B	SL-225-SA5B-SB-2.0-3.0	DX061	SO	2011-03-09	FIELD
5B	SL-304-SA5B-SB-3.0-4.0	DX061	SO	2011-03-09	FIELD
5B	SL-227-SA5B-SB-2.5-3.5	DX062	SO	2011-03-11	FIELD

SAMPLE DELIVERY GROUP

DE031

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-297-SA5B-SS-0.0-0.5	6162781	N	3050B	6010B	III
08-Dec-2010	SL-297-SA5B-SS-0.0-0.5	6162781	N	3050B	6020	III
08-Dec-2010	SL-297-SA5B-SS-0.0-0.5	6162781	N	3060A	7199	III
08-Dec-2010	SL-297-SA5B-SS-0.0-0.5	6162781	N	3550B	8081A	III
08-Dec-2010	SL-297-SA5B-SS-0.0-0.5	6162781	N	3550B	8082	III
08-Dec-2010	SL-297-SA5B-SS-0.0-0.5	6162781	N	3550B	8151A	III
08-Dec-2010	SL-297-SA5B-SS-0.0-0.5	6162781	N	3550B	8270C	III
08-Dec-2010	SL-297-SA5B-SS-0.0-0.5	6162781	N	3550B	8270C SIM	III
08-Dec-2010	SL-297-SA5B-SS-0.0-0.5	6162781	N	Gen Prep	9045M	III
08-Dec-2010	SL-297-SA5B-SS-0.0-0.5	6162781	N	METHOD	300.0	III
08-Dec-2010	SL-297-SA5B-SS-0.0-0.5	6162781	N	METHOD	314.0	III
08-Dec-2010	SL-297-SA5B-SS-0.0-0.5	6162781	N	METHOD	7471A	III
08-Dec-2010	SL-297-SA5B-SS-0.0-0.5DUP	P162781D271806B	DUP	METHOD	300.0	III
08-Dec-2010	SL-297-SA5B-SS-0.0-0.5MS	P162781R271851B	MS	METHOD	300.0	III
08-Dec-2010	SL-281-SA5B-SS-0.0-0.5	6162778	N	3050B	6010B	III
08-Dec-2010	SL-281-SA5B-SS-0.0-0.5	6162778	N	3050B	6020	III
08-Dec-2010	SL-281-SA5B-SS-0.0-0.5	6162778	N	3060A	7199	III
08-Dec-2010	SL-281-SA5B-SS-0.0-0.5	6162778	N	3550B	8081A	III
08-Dec-2010	SL-281-SA5B-SS-0.0-0.5	6162778	N	3550B	8082	III
08-Dec-2010	SL-281-SA5B-SS-0.0-0.5	6162778	N	3550B	8151A	III
08-Dec-2010	SL-281-SA5B-SS-0.0-0.5	6162778	N	3550B	8270C	III
08-Dec-2010	SL-281-SA5B-SS-0.0-0.5	6162778	N	3550B	8270C SIM	III
08-Dec-2010	SL-281-SA5B-SS-0.0-0.5	6162778	N	Gen Prep	9045M	III
08-Dec-2010	SL-281-SA5B-SS-0.0-0.5	6162778	N	METHOD	300.0	III
08-Dec-2010	SL-281-SA5B-SS-0.0-0.5	6162778	N	METHOD	314.0	III
08-Dec-2010	SL-281-SA5B-SS-0.0-0.5	6162778	N	METHOD	6850	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-281-SA5B-SS-0.0-0.5	6162778	N	METHOD	7471A	III
08-Dec-2010	SL-281-SA5B-SS-0.0-0.5DUP	P162778D271651A	DUP	METHOD	314.0	III
08-Dec-2010	SL-281-SA5B-SS-0.0-0.5MS	P162778R271740A	MS	METHOD	314.0	III
08-Dec-2010	SL-295-SA5B-SS-0.0-0.5	6162779	N	3050B	6010B	III
08-Dec-2010	SL-295-SA5B-SS-0.0-0.5	6162779	N	3050B	6020	III
08-Dec-2010	SL-295-SA5B-SS-0.0-0.5	6162779	N	3060A	7199	III
08-Dec-2010	SL-295-SA5B-SS-0.0-0.5	6162779	N	3550B	8081A	III
08-Dec-2010	SL-295-SA5B-SS-0.0-0.5	6162779	N	3550B	8082	III
08-Dec-2010	SL-295-SA5B-SS-0.0-0.5	6162779	N	3550B	8151A	III
08-Dec-2010	SL-295-SA5B-SS-0.0-0.5	6162779	N	3550B	8270C	III
08-Dec-2010	SL-295-SA5B-SS-0.0-0.5	6162779	N	3550B	8270C SIM	III
08-Dec-2010	SL-295-SA5B-SS-0.0-0.5	6162779	N	Gen Prep	9045M	III
08-Dec-2010	SL-295-SA5B-SS-0.0-0.5	6162779	N	METHOD	300.0	III
08-Dec-2010	SL-295-SA5B-SS-0.0-0.5	6162779	N	METHOD	314.0	III
08-Dec-2010	SL-295-SA5B-SS-0.0-0.5	6162779	N	METHOD	7471A	III
08-Dec-2010	SL-039-SA5B-SS-0.0-0.5	6162776	N	3050B	6010B	III
08-Dec-2010	SL-039-SA5B-SS-0.0-0.5	6162776	N	3050B	6020	III
08-Dec-2010	SL-039-SA5B-SS-0.0-0.5	6162776	N	3060A	7199	III
08-Dec-2010	SL-039-SA5B-SS-0.0-0.5	6162776	N	3550B	8081A	III
08-Dec-2010	SL-039-SA5B-SS-0.0-0.5	6162776	N	3550B	8082	III
08-Dec-2010	SL-039-SA5B-SS-0.0-0.5	6162776	N	3550B	8151A	III
08-Dec-2010	SL-039-SA5B-SS-0.0-0.5	6162776	N	3550B	8270C	III
08-Dec-2010	SL-039-SA5B-SS-0.0-0.5	6162776	N	3550B	8270C SIM	III
08-Dec-2010	SL-039-SA5B-SS-0.0-0.5	6162776	N	Gen Prep	9045M	III
08-Dec-2010	SL-039-SA5B-SS-0.0-0.5	6162776	N	METHOD	300.0	III
08-Dec-2010	SL-039-SA5B-SS-0.0-0.5	6162776	N	METHOD	314.0	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-039-SA5B-SS-0.0-0.5	6162776	N	METHOD	7471A	III
08-Dec-2010	SL-039-SA5B-SS-0.0-0.5MSD	P162776M241652A	MSD	3550B	8151A	III
08-Dec-2010	SL-039-SA5B-SS-0.0-0.5MSD	P162776M242111A	MSD	3550B	8081A	III
08-Dec-2010	SL-039-SA5B-SS-0.0-0.5MS	P162776R241625A	MS	3550B	8151A	III
08-Dec-2010	SL-039-SA5B-SS-0.0-0.5MS	P162776R242057A	MS	3550B	8081A	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5	6162774	N	3050B	6010B	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5	6162774	N	3050B	6020	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5	6162774	N	3060A	7199	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5	6162774	N	3550B	8081A	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5	6162774	N	3550B	8082	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5	6162774	N	3550B	8151A	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5	6162774	N	3550B	8270C	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5	6162774	N	3550B	8270C SIM	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5	6162774	N	Gen Prep	9045M	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5	6162774	N	METHOD	300.0	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5	6162774	N	METHOD	314.0	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5	6162774	N	METHOD	7471A	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5DUP	P162774D221223A	DUP	3050B	6020	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5DUP	P162774D221223B	DUP	3050B	6020	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5DUP	P162774D221223C	DUP	3050B	6020	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5DUP	P162774D221223D	DUP	3050B	6020	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5DUP	P162774D222115	DUP	3050B	6010B	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5DUP	P162774D271643A	DUP	3060A	7199	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5DUP	P162774D291015A	DUP	Gen Prep	9045M	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5MSD	P162774M221230A	MSD	3050B	6020	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5MSD	P162774M221230B	MSD	3050B	6020	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5MSD	P162774M221230C	MSD	3050B	6020	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5MSD	P162774M221230D	MSD	3050B	6020	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5MSD	P162774M222122	MSD	3050B	6010B	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5MSD	P162774M261959	MSD	3550B	8270C	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5MS	P162774R221226A	MS	3050B	6020	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5MS	P162774R221226B	MS	3050B	6020	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5MS	P162774R221226C	MS	3050B	6020	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5MS	P162774R221226D	MS	3050B	6020	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5MS	P162774R222118	MS	3050B	6010B	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5MS	P162774R261933	MS	3550B	8270C	III
08-Dec-2010	SL-026-SA5B-SS-0.0-0.5MS	P162774R271604A	MS	3060A	7199	III
08-Dec-2010	SL-296-SA5B-SS-0.0-0.5	6162780	N	3050B	6010B	III
08-Dec-2010	SL-296-SA5B-SS-0.0-0.5	6162780	N	3050B	6020	III
08-Dec-2010	SL-296-SA5B-SS-0.0-0.5	6162780	N	3060A	7199	III
08-Dec-2010	SL-296-SA5B-SS-0.0-0.5	6162780	N	3550B	8081A	III
08-Dec-2010	SL-296-SA5B-SS-0.0-0.5	6162780	N	3550B	8082	III
08-Dec-2010	SL-296-SA5B-SS-0.0-0.5	6162780	N	3550B	8151A	III
08-Dec-2010	SL-296-SA5B-SS-0.0-0.5	6162780	N	3550B	8270C	III
08-Dec-2010	SL-296-SA5B-SS-0.0-0.5	6162780	N	3550B	8270C SIM	III
08-Dec-2010	SL-296-SA5B-SS-0.0-0.5	6162780	N	Gen Prep	9045M	III
08-Dec-2010	SL-296-SA5B-SS-0.0-0.5	6162780	N	METHOD	300.0	III
08-Dec-2010	SL-296-SA5B-SS-0.0-0.5	6162780	N	METHOD	314.0	III
08-Dec-2010	SL-296-SA5B-SS-0.0-0.5	6162780	N	METHOD	7471A	III
08-Dec-2010	SL-296-SA5B-SS-0.0-0.5DUP	P162780D221956	DUP	METHOD	7471A	III
08-Dec-2010	SL-296-SA5B-SS-0.0-0.5MSD	P162780M222001	MSD	METHOD	7471A	III
08-Dec-2010	SL-296-SA5B-SS-0.0-0.5MS	P162780R221957	MS	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-280-SA5B-SS-0.0-0.5	6162777	N	3050B	6010B	III
08-Dec-2010	SL-280-SA5B-SS-0.0-0.5	6162777	N	3050B	6020	III
08-Dec-2010	SL-280-SA5B-SS-0.0-0.5	6162777	N	3060A	7199	III
08-Dec-2010	SL-280-SA5B-SS-0.0-0.5	6162777	N	3550B	8081A	III
08-Dec-2010	SL-280-SA5B-SS-0.0-0.5	6162777	N	3550B	8082	III
08-Dec-2010	SL-280-SA5B-SS-0.0-0.5	6162777	N	3550B	8151A	III
08-Dec-2010	SL-280-SA5B-SS-0.0-0.5	6162777	N	3550B	8270C	III
08-Dec-2010	SL-280-SA5B-SS-0.0-0.5	6162777	N	3550B	8270C SIM	III
08-Dec-2010	SL-280-SA5B-SS-0.0-0.5	6162777	N	Gen Prep	9045M	III
08-Dec-2010	SL-280-SA5B-SS-0.0-0.5	6162777	N	METHOD	300.0	III
08-Dec-2010	SL-280-SA5B-SS-0.0-0.5	6162777	N	METHOD	314.0	III
08-Dec-2010	SL-280-SA5B-SS-0.0-0.5	6162777	N	METHOD	7471A	III
08-Dec-2010	SL-280-SA5B-SS-0.0-0.5MSD	P162777M240017A	MSD	3550B	8082	III
08-Dec-2010	SL-280-SA5B-SS-0.0-0.5MS	P162777R242358A	MS	3550B	8082	III
08-Dec-2010	SL-308-SA5B-SS-0.0-0.5	6162782	N	3050B	6010B	III
08-Dec-2010	SL-308-SA5B-SS-0.0-0.5	6162782	N	3050B	6020	III
08-Dec-2010	SL-308-SA5B-SS-0.0-0.5	6162782	N	3060A	7199	III
08-Dec-2010	SL-308-SA5B-SS-0.0-0.5	6162782	N	3550B	8081A	III
08-Dec-2010	SL-308-SA5B-SS-0.0-0.5	6162782	N	3550B	8082	III
08-Dec-2010	SL-308-SA5B-SS-0.0-0.5	6162782	N	3550B	8151A	III
08-Dec-2010	SL-308-SA5B-SS-0.0-0.5	6162782	N	3550B	8270C	III
08-Dec-2010	SL-308-SA5B-SS-0.0-0.5	6162782	N	3550B	8270C SIM	III
08-Dec-2010	SL-308-SA5B-SS-0.0-0.5	6162782	N	Gen Prep	9045M	III
08-Dec-2010	SL-308-SA5B-SS-0.0-0.5	6162782	N	METHOD	300.0	III
08-Dec-2010	SL-308-SA5B-SS-0.0-0.5	6162782	N	METHOD	314.0	III
08-Dec-2010	SL-308-SA5B-SS-0.0-0.5	6162782	N	METHOD	7471A	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-038-SA5B-SS-0.0-0.5	6162775	N	3050B	6010B	III
08-Dec-2010	SL-038-SA5B-SS-0.0-0.5	6162775	N	3050B	6020	III
08-Dec-2010	SL-038-SA5B-SS-0.0-0.5	6162775	N	3060A	7199	III
08-Dec-2010	SL-038-SA5B-SS-0.0-0.5	6162775	N	3550B	8081A	III
08-Dec-2010	SL-038-SA5B-SS-0.0-0.5	6162775	N	3550B	8082	III
08-Dec-2010	SL-038-SA5B-SS-0.0-0.5	6162775	N	3550B	8151A	III
08-Dec-2010	SL-038-SA5B-SS-0.0-0.5	6162775	N	3550B	8270C	III
08-Dec-2010	SL-038-SA5B-SS-0.0-0.5	6162775	N	3550B	8270C SIM	III
08-Dec-2010	SL-038-SA5B-SS-0.0-0.5	6162775	N	Gen Prep	9045M	III
08-Dec-2010	SL-038-SA5B-SS-0.0-0.5	6162775	N	METHOD	300.0	III
08-Dec-2010	SL-038-SA5B-SS-0.0-0.5	6162775	N	METHOD	314.0	III
08-Dec-2010	SL-038-SA5B-SS-0.0-0.5	6162775	N	METHOD	7471A	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5	6162785	N	3050B	6010B	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5	6162785	N	3050B	6020	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5	6162785	N	3060A	7199	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5	6162785	N	3550B	8081A	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5	6162785	N	3550B	8082	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5	6162785	N	3550B	8151A	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5	6162785	N	3550B	8270C	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5	6162785	N	3550B	8270C SIM	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5	6162785	N	Gen Prep	9045M	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5	6162785	N	METHOD	300.0	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5	6162785	N	METHOD	314.0	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5	6162785	N	METHOD	6850	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5	6162785	N	METHOD	7471A	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5DUP	P162785D221648	DUP	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5DUP	P162785D291300A	DUP	Gen Prep	9045M	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5MSD	P162785M221655	MSD	3050B	6010B	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5MSD	P162785M261720	MSD	3550B	8270C SIM	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5MS	P162785R221652	MS	3050B	6010B	III
08-Dec-2010	SL-283-SA5B-SS-0.0-0.5MS	P162785R261646	MS	3550B	8270C SIM	III
08-Dec-2010	SL-282-SA5B-SS-0.0-0.5	6162784	N	3050B	6010B	III
08-Dec-2010	SL-282-SA5B-SS-0.0-0.5	6162784	N	3050B	6020	III
08-Dec-2010	SL-282-SA5B-SS-0.0-0.5	6162784	N	3060A	7199	III
08-Dec-2010	SL-282-SA5B-SS-0.0-0.5	6162784	N	3550B	8081A	III
08-Dec-2010	SL-282-SA5B-SS-0.0-0.5	6162784	N	3550B	8082	III
08-Dec-2010	SL-282-SA5B-SS-0.0-0.5	6162784	N	3550B	8151A	III
08-Dec-2010	SL-282-SA5B-SS-0.0-0.5	6162784	N	3550B	8270C	III
08-Dec-2010	SL-282-SA5B-SS-0.0-0.5	6162784	N	3550B	8270C SIM	III
08-Dec-2010	SL-282-SA5B-SS-0.0-0.5	6162784	N	Gen Prep	9045M	III
08-Dec-2010	SL-282-SA5B-SS-0.0-0.5	6162784	N	METHOD	300.0	III
08-Dec-2010	SL-282-SA5B-SS-0.0-0.5	6162784	N	METHOD	314.0	III
08-Dec-2010	SL-282-SA5B-SS-0.0-0.5	6162784	N	METHOD	7471A	III
08-Dec-2010	SL-032-SA5B-SS-0.0-0.5	6162783	N	3050B	6010B	III
08-Dec-2010	SL-032-SA5B-SS-0.0-0.5	6162783	N	3050B	6020	III
08-Dec-2010	SL-032-SA5B-SS-0.0-0.5	6162783	N	3060A	7199	III
08-Dec-2010	SL-032-SA5B-SS-0.0-0.5	6162783	N	3550B	8081A	III
08-Dec-2010	SL-032-SA5B-SS-0.0-0.5	6162783	N	3550B	8082	III
08-Dec-2010	SL-032-SA5B-SS-0.0-0.5	6162783	N	3550B	8151A	III
08-Dec-2010	SL-032-SA5B-SS-0.0-0.5	6162783	N	3550B	8270C	III
08-Dec-2010	SL-032-SA5B-SS-0.0-0.5	6162783	N	3550B	8270C SIM	III
08-Dec-2010	SL-032-SA5B-SS-0.0-0.5	6162783	N	Gen Prep	9045M	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-032-SA5B-SS-0.0-0.5	6162783	N	METHOD	300.0	III
08-Dec-2010	SL-032-SA5B-SS-0.0-0.5	6162783	N	METHOD	314.0	III
08-Dec-2010	SL-032-SA5B-SS-0.0-0.5	6162783	N	METHOD	7471A	III
08-Dec-2010	SL-032-SA5B-SS-0.0-0.5DUP	P162783D291015B	DUP	Gen Prep	9045M	III
09-Dec-2010	SL-293-SA5B-SS-0.0-0.5	6162787	N	3050B	6010B	III
09-Dec-2010	SL-293-SA5B-SS-0.0-0.5	6162787	N	3050B	6020	III
09-Dec-2010	SL-293-SA5B-SS-0.0-0.5	6162787	N	3060A	7199	III
09-Dec-2010	SL-293-SA5B-SS-0.0-0.5	6162787	N	3550B	8081A	III
09-Dec-2010	SL-293-SA5B-SS-0.0-0.5	6162787	N	3550B	8082	III
09-Dec-2010	SL-293-SA5B-SS-0.0-0.5	6162787	N	3550B	8151A	III
09-Dec-2010	SL-293-SA5B-SS-0.0-0.5	6162787	N	3550B	8270C	III
09-Dec-2010	SL-293-SA5B-SS-0.0-0.5	6162787	N	3550B	8270C SIM	III
09-Dec-2010	SL-293-SA5B-SS-0.0-0.5	6162787	N	Gen Prep	9045M	III
09-Dec-2010	SL-293-SA5B-SS-0.0-0.5	6162787	N	METHOD	300.0	III
09-Dec-2010	SL-293-SA5B-SS-0.0-0.5	6162787	N	METHOD	314.0	III
09-Dec-2010	SL-293-SA5B-SS-0.0-0.5	6162787	N	METHOD	7471A	III
09-Dec-2010	SL-292-SA5B-SS-0.0-0.5	6162786	N	3050B	6010B	III
09-Dec-2010	SL-292-SA5B-SS-0.0-0.5	6162786	N	3050B	6020	III
09-Dec-2010	SL-292-SA5B-SS-0.0-0.5	6162786	N	3060A	7199	III
09-Dec-2010	SL-292-SA5B-SS-0.0-0.5	6162786	N	3550B	8081A	III
09-Dec-2010	SL-292-SA5B-SS-0.0-0.5	6162786	N	3550B	8082	III
09-Dec-2010	SL-292-SA5B-SS-0.0-0.5	6162786	N	3550B	8151A	III
09-Dec-2010	SL-292-SA5B-SS-0.0-0.5	6162786	N	3550B	8270C	III
09-Dec-2010	SL-292-SA5B-SS-0.0-0.5	6162786	N	3550B	8270C SIM	III
09-Dec-2010	SL-292-SA5B-SS-0.0-0.5	6162786	N	Gen Prep	9045M	III
09-Dec-2010	SL-292-SA5B-SS-0.0-0.5	6162786	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-292-SA5B-SS-0.0-0.5	6162786	N	METHOD	314.0	III
09-Dec-2010	SL-292-SA5B-SS-0.0-0.5	6162786	N	METHOD	7471A	III
09-Dec-2010	SL-004-SA5B-SS-0.0-0.5	6162792	N	3050B	6010B	III
09-Dec-2010	SL-004-SA5B-SS-0.0-0.5	6162792	N	3050B	6020	III
09-Dec-2010	SL-004-SA5B-SS-0.0-0.5	6162792	N	3060A	7199	III
09-Dec-2010	SL-004-SA5B-SS-0.0-0.5	6162792	N	3550B	8081A	III
09-Dec-2010	SL-004-SA5B-SS-0.0-0.5	6162792	N	3550B	8082	III
09-Dec-2010	SL-004-SA5B-SS-0.0-0.5	6162792	N	3550B	8151A	III
09-Dec-2010	SL-004-SA5B-SS-0.0-0.5	6162792	N	3550B	8270C	III
09-Dec-2010	SL-004-SA5B-SS-0.0-0.5	6162792	N	3550B	8270C SIM	III
09-Dec-2010	SL-004-SA5B-SS-0.0-0.5	6162792	N	Gen Prep	9045M	III
09-Dec-2010	SL-004-SA5B-SS-0.0-0.5	6162792	N	METHOD	300.0	III
09-Dec-2010	SL-004-SA5B-SS-0.0-0.5	6162792	N	METHOD	314.0	III
09-Dec-2010	SL-004-SA5B-SS-0.0-0.5	6162792	N	METHOD	6850	III
09-Dec-2010	SL-004-SA5B-SS-0.0-0.5	6162792	N	METHOD	7471A	III
09-Dec-2010	SL-003-SA5B-SS-0.0-0.5	6162789	N	3050B	6010B	III
09-Dec-2010	SL-003-SA5B-SS-0.0-0.5	6162789	N	3050B	6020	III
09-Dec-2010	SL-003-SA5B-SS-0.0-0.5	6162789	N	3060A	7199	III
09-Dec-2010	SL-003-SA5B-SS-0.0-0.5	6162789	N	3550B	8081A	III
09-Dec-2010	SL-003-SA5B-SS-0.0-0.5	6162789	N	3550B	8082	III
09-Dec-2010	SL-003-SA5B-SS-0.0-0.5	6162789	N	3550B	8151A	III
09-Dec-2010	SL-003-SA5B-SS-0.0-0.5	6162789	N	3550B	8270C	III
09-Dec-2010	SL-003-SA5B-SS-0.0-0.5	6162789	N	3550B	8270C SIM	III
09-Dec-2010	SL-003-SA5B-SS-0.0-0.5	6162789	N	Gen Prep	9045M	III
09-Dec-2010	SL-003-SA5B-SS-0.0-0.5	6162789	N	METHOD	300.0	III
09-Dec-2010	SL-003-SA5B-SS-0.0-0.5	6162789	N	METHOD	314.0	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-003-SA5B-SS-0.0-0.5	6162789	N	METHOD	6850	III
09-Dec-2010	SL-003-SA5B-SS-0.0-0.5	6162789	N	METHOD	7471A	III
09-Dec-2010	SL-005-SA5B-SS-0.0-0.5	6162791	N	3050B	6010B	III
09-Dec-2010	SL-005-SA5B-SS-0.0-0.5	6162791	N	3050B	6020	III
09-Dec-2010	SL-005-SA5B-SS-0.0-0.5	6162791	N	3060A	7199	III
09-Dec-2010	SL-005-SA5B-SS-0.0-0.5	6162791	N	3550B	8081A	III
09-Dec-2010	SL-005-SA5B-SS-0.0-0.5	6162791	N	3550B	8082	III
09-Dec-2010	SL-005-SA5B-SS-0.0-0.5	6162791	N	3550B	8151A	III
09-Dec-2010	SL-005-SA5B-SS-0.0-0.5	6162791	N	3550B	8270C	III
09-Dec-2010	SL-005-SA5B-SS-0.0-0.5	6162791	N	3550B	8270C SIM	III
09-Dec-2010	SL-005-SA5B-SS-0.0-0.5	6162791	N	Gen Prep	9045M	III
09-Dec-2010	SL-005-SA5B-SS-0.0-0.5	6162791	N	METHOD	300.0	III
09-Dec-2010	SL-005-SA5B-SS-0.0-0.5	6162791	N	METHOD	314.0	III
09-Dec-2010	SL-005-SA5B-SS-0.0-0.5	6162791	N	METHOD	6850	III
09-Dec-2010	SL-005-SA5B-SS-0.0-0.5	6162791	N	METHOD	7471A	III
09-Dec-2010	SL-005-SA5B-SS-0.0-0.5DUP	P162791D271026A	DUP	METHOD	300.0	III
09-Dec-2010	SL-005-SA5B-SS-0.0-0.5MS	P162791R271040A	MS	METHOD	300.0	III
09-Dec-2010	SL-231-SA5B-SS-0.0-0.5	6162788	N	3050B	6010B	III
09-Dec-2010	SL-231-SA5B-SS-0.0-0.5	6162788	N	3050B	6020	III
09-Dec-2010	SL-231-SA5B-SS-0.0-0.5	6162788	N	3060A	7199	III
09-Dec-2010	SL-231-SA5B-SS-0.0-0.5	6162788	N	3550B	8081A	III
09-Dec-2010	SL-231-SA5B-SS-0.0-0.5	6162788	N	3550B	8082	III
09-Dec-2010	SL-231-SA5B-SS-0.0-0.5	6162788	N	3550B	8151A	III
09-Dec-2010	SL-231-SA5B-SS-0.0-0.5	6162788	N	3550B	8270C	III
09-Dec-2010	SL-231-SA5B-SS-0.0-0.5	6162788	N	3550B	8270C SIM	III
09-Dec-2010	SL-231-SA5B-SS-0.0-0.5	6162788	N	Gen Prep	9045M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-231-SA5B-SS-0.0-0.5	6162788	N	METHOD	300.0	III
09-Dec-2010	SL-231-SA5B-SS-0.0-0.5	6162788	N	METHOD	314.0	III
09-Dec-2010	SL-231-SA5B-SS-0.0-0.5	6162788	N	METHOD	6850	III
09-Dec-2010	SL-231-SA5B-SS-0.0-0.5	6162788	N	METHOD	7471A	III
09-Dec-2010	SL-231-SA5B-SS-0.0-0.5DUP	P162788D272228B	DUP	METHOD	314.0	III
09-Dec-2010	SL-231-SA5B-SS-0.0-0.5MS	P162788R272252B	MS	METHOD	314.0	III
09-Dec-2010	SL-230-SA5B-SS-0.0-0.5	6162790	N	3050B	6010B	III
09-Dec-2010	SL-230-SA5B-SS-0.0-0.5	6162790	N	3050B	6020	III
09-Dec-2010	SL-230-SA5B-SS-0.0-0.5	6162790	N	3060A	7199	III
09-Dec-2010	SL-230-SA5B-SS-0.0-0.5	6162790	N	3550B	8081A	III
09-Dec-2010	SL-230-SA5B-SS-0.0-0.5	6162790	N	3550B	8082	III
09-Dec-2010	SL-230-SA5B-SS-0.0-0.5	6162790	N	3550B	8151A	III
09-Dec-2010	SL-230-SA5B-SS-0.0-0.5	6162790	N	3550B	8270C	III
09-Dec-2010	SL-230-SA5B-SS-0.0-0.5	6162790	N	3550B	8270C SIM	III
09-Dec-2010	SL-230-SA5B-SS-0.0-0.5	6162790	N	Gen Prep	9045M	III
09-Dec-2010	SL-230-SA5B-SS-0.0-0.5	6162790	N	METHOD	300.0	III
09-Dec-2010	SL-230-SA5B-SS-0.0-0.5	6162790	N	METHOD	314.0	III
09-Dec-2010	SL-230-SA5B-SS-0.0-0.5	6162790	N	METHOD	6850	III
09-Dec-2010	SL-230-SA5B-SS-0.0-0.5	6162790	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM
Method:	314.0
Matrix:	SO

Sample ID: SL-281-SA5B-SS-0.0-0.5 Collected: 12/8/2010 10:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	15.0	J	10	MDL	33.3	PQL	ug/Kg	J	Z

Method Category:	METALS
Method:	6010B
Matrix:	SO

Sample ID: SL-003-SA5B-SS-0.0-0.5 Collected: 12/9/2010 1:52:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2620		19.4	MDL	53.8	PQL	mg/Kg	J	Q
TIN	2.04	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	0.981	J	0.904	MDL	5.38	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5B-SS-0.0-0.5 Collected: 12/9/2010 1:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2830		18.6	MDL	51.6	PQL	mg/Kg	J	Q
TIN	2.08	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.85	J	0.868	MDL	5.16	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA5B-SS-0.0-0.5 Collected: 12/9/2010 2:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2240		18.9	MDL	52.5	PQL	mg/Kg	J	Q
TIN	2.05	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.53	J	0.881	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SS-0.0-0.5 Collected: 12/8/2010 11:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2690		19.1	MDL	53.0	PQL	mg/Kg	J	Q
TIN	1.99	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.75	J	0.890	MDL	5.30	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-032-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2490		19.5	MDL	54.2	PQL	mg/Kg	J	Q
TIN	2.06	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.33	J	0.910	MDL	5.42	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2550		19.7	MDL	54.8	PQL	mg/Kg	J	Q
TIN	1.96	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.08	J	0.921	MDL	5.48	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2680		19.1	MDL	53.1	PQL	mg/Kg	J	Q
TIN	2.00	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.11	J	0.891	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-230-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2320		20.0	MDL	55.6	PQL	mg/Kg	J	Q
TIN	1.58	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.96	J	0.934	MDL	5.56	PQL	mg/Kg	J	Z

Sample ID: SL-231-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:26:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2760		18.1	MDL	50.2	PQL	mg/Kg	J	Q
TIN	1.76	J	1.00	MDL	10.0	PQL	mg/Kg	U	B

Sample ID: SL-280-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2670		18.9	MDL	52.5	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-280-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.29	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.19	J	0.883	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3180		19.6	MDL	54.4	PQL	mg/Kg	J	Q
TIN	1.69	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	0.989	J	0.914	MDL	5.44	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3060		18.7	MDL	52.0	PQL	mg/Kg	J	Q
TIN	1.86	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.37	J	0.874	MDL	5.20	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2840		19.7	MDL	54.6	PQL	mg/Kg	J	Q
TIN	2.05	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.31	J	0.918	MDL	5.46	PQL	mg/Kg	J	Z

Sample ID: SL-292-SA5B-SS-0.0-0.5

Collected: 12/9/2010 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2020		19.0	MDL	52.8	PQL	mg/Kg	J	Q
TIN	1.79	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.46	J	0.887	MDL	5.28	PQL	mg/Kg	J	Z

Sample ID: SL-293-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2280		19.9	MDL	55.4	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-293-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	1.37	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.99	J	0.930	MDL	5.54	PQL	mg/Kg	J	Z

Sample ID: SL-295-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:34:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2830		19.2	MDL	53.3	PQL	mg/Kg	J	Q
TIN	2.00	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.28	J	0.896	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-296-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2780		18.9	MDL	52.4	PQL	mg/Kg	J	Q
TIN	2.07	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.54	J	0.880	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA5B-SS-0.0-0.5

Collected: 12/8/2010 9:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4790		19.3	MDL	53.5	PQL	mg/Kg	J	Q
TIN	1.72	J	1.07	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-308-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2770		18.9	MDL	52.5	PQL	mg/Kg	J	Q
SODIUM	84.6	J	39.2	MDL	105	PQL	mg/Kg	J	Z
TIN	1.95	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.02	J	0.882	MDL	5.25	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-003-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:52:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0987	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:52:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.410		0.0528	MDL	0.106	PQL	mg/Kg	J	E

Sample ID: SL-003-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:52:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	83.2		0.114	MDL	0.422	PQL	mg/Kg	J	A

Sample ID: SL-003-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:52:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0633	U	0.0633	MDL	0.211	PQL	mg/Kg	UJ	Q
CHROMIUM	14.8		0.127	MDL	0.422	PQL	mg/Kg	J	A
COBALT	4.93		0.0211	MDL	0.106	PQL	mg/Kg	J	A
COPPER	6.89		0.0696	MDL	0.422	PQL	mg/Kg	J	E, A
LEAD	5.19		0.0110	MDL	0.211	PQL	mg/Kg	J	A
SILVER	0.0151	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	28.3		0.0232	MDL	0.106	PQL	mg/Kg	J	A

Sample ID: SL-004-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:35:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.798		0.0527	MDL	0.105	PQL	mg/Kg	J	E

Sample ID: SL-004-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:35:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	82.9		0.114	MDL	0.421	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-004-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0632	U	0.0632	MDL	0.211	PQL	mg/Kg	UJ	Q
CHROMIUM	17.0		0.126	MDL	0.421	PQL	mg/Kg	J	A
COBALT	5.49		0.0211	MDL	0.105	PQL	mg/Kg	J	A
COPPER	12.2		0.0695	MDL	0.421	PQL	mg/Kg	J	E, A
LEAD	6.94		0.0110	MDL	0.211	PQL	mg/Kg	J	A
SILVER	0.0192	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	31.5		0.0232	MDL	0.105	PQL	mg/Kg	J	A

Sample ID: SL-005-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:25:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0933	J	0.0600	MDL	0.200	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-005-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.90		0.0500	MDL	0.0999	PQL	mg/Kg	J	E

Sample ID: SL-005-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:25:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	87.6		0.108	MDL	0.400	PQL	mg/Kg	J	A

Sample ID: SL-005-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	25.7		0.120	MDL	0.400	PQL	mg/Kg	J	A
COBALT	5.68		0.0200	MDL	0.0999	PQL	mg/Kg	J	A
COPPER	14.9		0.0660	MDL	0.400	PQL	mg/Kg	J	E, A
LEAD	5.95		0.0104	MDL	0.200	PQL	mg/Kg	J	A
SILVER	0.0609	J	0.0120	MDL	0.0999	PQL	mg/Kg	J	Z
VANADIUM	32.4		0.0220	MDL	0.0999	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-026-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:25:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0918	J	0.0636	MDL	0.212	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-026-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.550		0.0530	MDL	0.106	PQL	mg/Kg	J	E

Sample ID: SL-026-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:25:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.6		0.114	MDL	0.424	PQL	mg/Kg	J	A

Sample ID: SL-026-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0846	J	0.0382	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	14.6		0.127	MDL	0.424	PQL	mg/Kg	J	A
COBALT	4.75		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	7.52		0.0700	MDL	0.424	PQL	mg/Kg	J	E, A
LEAD	5.29		0.0110	MDL	0.212	PQL	mg/Kg	J	A
SILVER	0.0204	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	29.0		0.0233	MDL	0.106	PQL	mg/Kg	J	A

Sample ID: SL-032-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:55:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0417	MDL	0.417	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-032-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:55:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.551		0.0521	MDL	0.104	PQL	mg/Kg	J	E

Sample ID: SL-032-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:55:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	72.7		0.113	MDL	0.417	PQL	mg/Kg	J	A

Sample ID: SL-032-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:55:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0625	U	0.0625	MDL	0.208	PQL	mg/Kg	UJ	Q
CADMIUM	0.0898	J	0.0375	MDL	0.104	PQL	mg/Kg	J	Z
CHROMIUM	14.4		0.125	MDL	0.417	PQL	mg/Kg	J	A
COBALT	4.51		0.0208	MDL	0.104	PQL	mg/Kg	J	A
COPPER	6.35		0.0688	MDL	0.417	PQL	mg/Kg	J	E, A
LEAD	4.90		0.0108	MDL	0.208	PQL	mg/Kg	J	A
SILVER	0.0283	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	27.4		0.0229	MDL	0.104	PQL	mg/Kg	J	A

Sample ID: SL-038-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:15:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.110	J	0.0633	MDL	0.211	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-038-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:15:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0991	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:15:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.762		0.0527	MDL	0.105	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-038-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:15:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	84.2		0.114	MDL	0.422	PQL	mg/Kg	J	A

Sample ID: SL-038-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	19.6		0.127	MDL	0.422	PQL	mg/Kg	J	A
COBALT	5.20		0.0211	MDL	0.105	PQL	mg/Kg	J	A
COPPER	7.84		0.0696	MDL	0.422	PQL	mg/Kg	J	E, A
LEAD	5.12		0.0110	MDL	0.211	PQL	mg/Kg	J	A
SILVER	0.0258	J	0.0127	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	32.7		0.0232	MDL	0.105	PQL	mg/Kg	J	A

Sample ID: SL-039-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:48:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0987	J	0.0437	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:48:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.292		0.0546	MDL	0.109	PQL	mg/Kg	J	E

Sample ID: SL-039-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:48:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	76.3		0.118	MDL	0.437	PQL	mg/Kg	J	A

Sample ID: SL-039-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:48:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0656	U	0.0656	MDL	0.219	PQL	mg/Kg	UJ	Q
CADMIUM	0.0740	J	0.0393	MDL	0.109	PQL	mg/Kg	J	Z
CHROMIUM	12.3		0.131	MDL	0.437	PQL	mg/Kg	J	A
COBALT	4.30		0.0219	MDL	0.109	PQL	mg/Kg	J	A
COPPER	6.19		0.0721	MDL	0.437	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-039-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:48:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	4.59		0.0114	MDL	0.219	PQL	mg/Kg	J	A
SILVER	0.0182	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	25.9		0.0240	MDL	0.109	PQL	mg/Kg	J	A

Sample ID: SL-230-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:48:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.103	J	0.0636	MDL	0.212	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-230-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:48:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.61		0.0530	MDL	0.106	PQL	mg/Kg	J	E

Sample ID: SL-230-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:48:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.114	MDL	0.424	PQL	mg/Kg	J	A

Sample ID: SL-230-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:48:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	25.0		0.127	MDL	0.424	PQL	mg/Kg	J	A
COBALT	6.78		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	12.9		0.0699	MDL	0.424	PQL	mg/Kg	J	E, A
LEAD	9.44		0.0110	MDL	0.212	PQL	mg/Kg	J	A
SILVER	0.0385	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	48.5		0.0233	MDL	0.106	PQL	mg/Kg	J	A

Sample ID: SL-231-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:26:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.113	J	0.0602	MDL	0.201	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-231-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:26:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0883	J	0.0401	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-231-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:26:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.493		0.0502	MDL	0.100	PQL	mg/Kg	J	E

Sample ID: SL-231-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:26:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	111		0.108	MDL	0.401	PQL	mg/Kg	J	A

Sample ID: SL-231-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:26:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0941	J	0.0361	MDL	0.100	PQL	mg/Kg	J	Z
CHROMIUM	12.8		0.120	MDL	0.401	PQL	mg/Kg	J	A
COBALT	5.81		0.0201	MDL	0.100	PQL	mg/Kg	J	A
COPPER	9.32		0.0662	MDL	0.401	PQL	mg/Kg	J	E, A
LEAD	4.31		0.0104	MDL	0.201	PQL	mg/Kg	J	A
SILVER	0.0405	J	0.0120	MDL	0.100	PQL	mg/Kg	J	Z
VANADIUM	32.5		0.0221	MDL	0.100	PQL	mg/Kg	J	A

Sample ID: SL-280-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:46:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0670	J	0.0416	MDL	0.416	PQL	mg/Kg	J	Z

Sample ID: SL-280-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:46:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.882		0.0520	MDL	0.104	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-280-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:46:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	81.6		0.112	MDL	0.416	PQL	mg/Kg	J	A

Sample ID: SL-280-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:46:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0625	U	0.0625	MDL	0.208	PQL	mg/Kg	UJ	Q
CADMIUM	0.0747	J	0.0375	MDL	0.104	PQL	mg/Kg	J	Z
CHROMIUM	15.2		0.125	MDL	0.416	PQL	mg/Kg	J	A
COBALT	4.70		0.0208	MDL	0.104	PQL	mg/Kg	J	A
COPPER	7.97		0.0687	MDL	0.416	PQL	mg/Kg	J	E, A
LEAD	5.43		0.0108	MDL	0.208	PQL	mg/Kg	J	A
SILVER	0.0144	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	28.7		0.0229	MDL	0.104	PQL	mg/Kg	J	A

Sample ID: SL-281-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0620	J	0.0444	MDL	0.444	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.263		0.0555	MDL	0.111	PQL	mg/Kg	J	E

Sample ID: SL-281-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:25:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	72.3		0.120	MDL	0.444	PQL	mg/Kg	J	A

Sample ID: SL-281-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0666	U	0.0666	MDL	0.222	PQL	mg/Kg	UJ	Q
CADMIUM	0.0683	J	0.0400	MDL	0.111	PQL	mg/Kg	J	Z
CHROMIUM	11.7		0.133	MDL	0.444	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-281-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	3.94		0.0222	MDL	0.111	PQL	mg/Kg	J	A
COPPER	6.91		0.0733	MDL	0.444	PQL	mg/Kg	J	E, A
LEAD	4.25		0.0115	MDL	0.222	PQL	mg/Kg	J	A
SILVER	0.0158	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	24.3		0.0244	MDL	0.111	PQL	mg/Kg	J	A

Sample ID: SL-282-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:50:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.139	J	0.0630	MDL	0.210	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-282-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:50:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.120	J	0.0420	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:50:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.473		0.0525	MDL	0.105	PQL	mg/Kg	J	E

Sample ID: SL-282-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:50:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	102		0.113	MDL	0.420	PQL	mg/Kg	J	A

Sample ID: SL-282-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:50:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	18.9		0.126	MDL	0.420	PQL	mg/Kg	J	A
COBALT	6.17		0.0210	MDL	0.105	PQL	mg/Kg	J	A
COPPER	10.2		0.0693	MDL	0.420	PQL	mg/Kg	J	E, A
LEAD	7.31		0.0109	MDL	0.210	PQL	mg/Kg	J	A
SILVER	0.0435	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	37.0		0.0231	MDL	0.105	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-283-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.146	J	0.0637	MDL	0.212	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-283-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.548		0.0531	MDL	0.106	PQL	mg/Kg	J	E

Sample ID: SL-283-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	89.3		0.115	MDL	0.424	PQL	mg/Kg	J	A

Sample ID: SL-283-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	17.2		0.127	MDL	0.424	PQL	mg/Kg	J	A
COBALT	5.62		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	8.40		0.0700	MDL	0.424	PQL	mg/Kg	J	E, A
LEAD	5.12		0.0110	MDL	0.212	PQL	mg/Kg	J	A
SILVER	0.0162	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	34.3		0.0233	MDL	0.106	PQL	mg/Kg	J	A

Sample ID: SL-292-SA5B-SS-0.0-0.5

Collected: 12/9/2010 10:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.287	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-292-SA5B-SS-0.0-0.5

Collected: 12/9/2010 10:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.35		0.0523	MDL	0.105	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-292-SA5B-SS-0.0-0.5

Collected: 12/9/2010 10:25:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	106		0.113	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-292-SA5B-SS-0.0-0.5

Collected: 12/9/2010 10:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0627	U	0.0627	MDL	0.209	PQL	mg/Kg	UJ	Q
CHROMIUM	28.5		0.125	MDL	0.418	PQL	mg/Kg	J	A
COBALT	4.77		0.0209	MDL	0.105	PQL	mg/Kg	J	A
COPPER	8.11		0.0690	MDL	0.418	PQL	mg/Kg	J	E, A
LEAD	3.97		0.0109	MDL	0.209	PQL	mg/Kg	J	A
SILVER	0.0282	J	0.0125	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	34.7		0.0230	MDL	0.105	PQL	mg/Kg	J	A

Sample ID: SL-293-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:50:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0434	MDL	0.434	PQL	mg/Kg	J	Z

Sample ID: SL-293-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:50:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.26		0.0543	MDL	0.109	PQL	mg/Kg	J	E

Sample ID: SL-293-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:50:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	81.9		0.117	MDL	0.434	PQL	mg/Kg	J	A

Sample ID: SL-293-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:50:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0652	U	0.0652	MDL	0.217	PQL	mg/Kg	UJ	Q
CHROMIUM	22.8		0.130	MDL	0.434	PQL	mg/Kg	J	A
COBALT	4.66		0.0217	MDL	0.109	PQL	mg/Kg	J	A
COPPER	7.16		0.0717	MDL	0.434	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-293-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:50:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	4.36		0.0113	MDL	0.217	PQL	mg/Kg	J	A
SILVER	0.0352	J	0.0130	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	30.2		0.0239	MDL	0.109	PQL	mg/Kg	J	A

Sample ID: SL-295-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:34:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.310		0.0653	MDL	0.218	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-295-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:34:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0985	J	0.0435	MDL	0.435	PQL	mg/Kg	J	Z

Sample ID: SL-295-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:34:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.551		0.0544	MDL	0.109	PQL	mg/Kg	J	E

Sample ID: SL-295-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:34:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	98.3		0.118	MDL	0.435	PQL	mg/Kg	J	A

Sample ID: SL-295-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:34:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.104	J	0.0392	MDL	0.109	PQL	mg/Kg	J	Z
CHROMIUM	16.6		0.131	MDL	0.435	PQL	mg/Kg	J	A
COBALT	5.91		0.0218	MDL	0.109	PQL	mg/Kg	J	A
COPPER	9.83		0.0718	MDL	0.435	PQL	mg/Kg	J	E, A
LEAD	7.92		0.0113	MDL	0.218	PQL	mg/Kg	J	A
SILVER	0.0277	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	33.5		0.0239	MDL	0.109	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-296-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:35:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.128	J	0.0635	MDL	0.212	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-296-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:35:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.232	J	0.0423	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-296-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:35:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.764		0.0529	MDL	0.106	PQL	mg/Kg	J	E

Sample ID: SL-296-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:35:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	110		0.114	MDL	0.423	PQL	mg/Kg	J	A

Sample ID: SL-296-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	19.4		0.127	MDL	0.423	PQL	mg/Kg	J	A
COBALT	5.75		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	11.7		0.0698	MDL	0.423	PQL	mg/Kg	J	E, A
LEAD	6.16		0.0110	MDL	0.212	PQL	mg/Kg	J	A
SILVER	0.0218	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	33.5		0.0233	MDL	0.106	PQL	mg/Kg	J	A

Sample ID: SL-297-SA5B-SS-0.0-0.5

Collected: 12/8/2010 9:35:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0872	J	0.0428	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA5B-SS-0.0-0.5

Collected: 12/8/2010 9:35:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.475		0.0535	MDL	0.107	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-297-SA5B-SS-0.0-0.5

Collected: 12/8/2010 9:35:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	77.8		0.116	MDL	0.428	PQL	mg/Kg	J	A

Sample ID: SL-297-SA5B-SS-0.0-0.5

Collected: 12/8/2010 9:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0642	U	0.0642	MDL	0.214	PQL	mg/Kg	UJ	Q
CHROMIUM	13.0		0.128	MDL	0.428	PQL	mg/Kg	J	A
COBALT	4.81		0.0214	MDL	0.107	PQL	mg/Kg	J	A
COPPER	7.71		0.0707	MDL	0.428	PQL	mg/Kg	J	E, A
LEAD	4.98		0.0111	MDL	0.214	PQL	mg/Kg	J	A
SILVER	0.0230	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	29.0		0.0236	MDL	0.107	PQL	mg/Kg	J	A

Sample ID: SL-308-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:05:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.111	J	0.0437	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: SL-308-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:05:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.628		0.0546	MDL	0.109	PQL	mg/Kg	J	E

Sample ID: SL-308-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:05:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	94.4		0.118	MDL	0.437	PQL	mg/Kg	J	A

Sample ID: SL-308-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:05:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0655	U	0.0655	MDL	0.218	PQL	mg/Kg	UJ	Q
CHROMIUM	20.2		0.131	MDL	0.437	PQL	mg/Kg	J	A
COBALT	6.26		0.0218	MDL	0.109	PQL	mg/Kg	J	A
COPPER	8.98		0.0721	MDL	0.437	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-308-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:05:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	6.44		0.0114	MDL	0.218	PQL	mg/Kg	J	A
SILVER	0.0219	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	37.6		0.0240	MDL	0.109	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-026-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.25	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-230-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-292-SA5B-SS-0.0-0.5

Collected: 12/9/2010 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-003-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0055	J	0.0030	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0240	J	0.0030	MDL	0.106	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-005-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0152	J	0.0028	MDL	0.0979	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0067	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-032-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0123	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0153	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0082	J	0.0029	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-230-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0337	J	0.0032	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-231-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:26:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0161	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-280-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0141	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-281-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0114	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0075	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0126	J	0.0030	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-292-SA5B-SS-0.0-0.5

Collected: 12/9/2010 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0151	J	0.0029	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-293-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0144	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-295-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:34:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0097	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-296-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0067	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA5B-SS-0.0-0.5

Collected: 12/8/2010 9:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0070	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-308-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0121	J	0.0029	MDL	0.103	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-004-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MIREX	9.8	J	3.5	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.10	J	0.066	MDL	0.18	PQL	ug/Kg	J	Z

Sample ID: SL-231-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:26:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR EPOXIDE	0.055	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-292-SA5B-SS-0.0-0.5

Collected: 12/9/2010 10:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.097	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z
DIELDRIN	0.086	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z
MIREX	0.092	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z

Sample ID: SL-296-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.27	J	0.072	MDL	0.37	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-297-SA5B-SS-0.0-0.5

Collected: 12/8/2010 9:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.087	J	0.067	MDL	0.18	PQL	ug/Kg	J	Z, S

Sample ID: SL-308-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.086	J	0.072	MDL	0.37	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-003-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:52:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.47	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-004-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.64	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.72	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-005-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.68	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.50	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-026-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.49	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, S
AROCLOR 1260	0.87	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, S
Aroclor 5460	1.5	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-032-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.80	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.62	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.52	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	1.5	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-039-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.8	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-231-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:26:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.76	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-280-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:46:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.93	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.86	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-281-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.9	J	0.37	MDL	1.9	PQL	ug/Kg	J	S
AROCLOR 1260	1.3	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S
Aroclor 5460	7.2		1.1	MDL	3.7	PQL	ug/Kg	J	S

Sample ID: SL-282-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.50	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-282-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.79	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	1.3	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-283-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.59	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.47	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-293-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.99	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	1.1	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-295-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:34:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.41	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z, S
AROCLOR 1260	0.60	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z, S

Sample ID: SL-296-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.59	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	1.6	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-297-SA5B-SS-0.0-0.5

Collected: 12/8/2010 9:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.1	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.68	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-003-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:52:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-004-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-005-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-026-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-032-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L
MCPA	170	J	82	MDL	270	PQL	ug/Kg	J	Z
MCPD	160	J	81	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-039-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:48:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-230-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:48:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-231-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:26:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-280-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:46:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-281-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-282-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-283-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L
MCPA	120	J	83	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-292-SA5B-SS-0.0-0.5

Collected: 12/9/2010 10:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-293-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.6	J	0.69	MDL	1.9	PQL	ug/Kg	J	Z
DICHLOROPROP	1.4	J	0.89	MDL	1.9	PQL	ug/Kg	J	Z
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-295-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:34:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-296-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-297-SA5B-SS-0.0-0.5

Collected: 12/8/2010 9:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L
MCP	270	J	84	MDL	280	PQL	ug/Kg	J	Z

Sample ID: SL-308-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.2	J	0.68	MDL	1.9	PQL	ug/Kg	J	Z
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L
MCP	200	J	82	MDL	270	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-003-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:52:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L
BENZO(B)FLUORANTHENE	21	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-003-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:52:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	21	J	18	MDL	180	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	18	MDL	360	PQL	ug/Kg	J	Z
CHRYSENE	49	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	87	J	18	MDL	180	PQL	ug/Kg	J	Z
PHENANTHRENE	35	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	69	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-004-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	5400	U	5400	MDL	18000	PQL	ug/Kg	UJ	L

Sample ID: SL-005-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	100	U	100	MDL	350	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	52	J	17	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-026-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L
N-NITROSODIPHENYLAMINE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q

Sample ID: SL-032-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

Sample ID: SL-038-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L
BENZO(A)PYRENE	71	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	44	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-038-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	140	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	24	J	18	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	67	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-039-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:48:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHthalate	19	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-230-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:48:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U*	110	MDL	370	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHthalate	26	J	19	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-231-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:26:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	100	U	100	MDL	350	PQL	ug/Kg	UJ	L

Sample ID: SL-280-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:46:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

Sample ID: SL-281-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L

Sample ID: SL-282-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-283-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

Sample ID: SL-292-SA5B-SS-0.0-0.5

Collected: 12/9/2010 10:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

Sample ID: SL-293-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L

Sample ID: SL-295-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:34:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L

Sample ID: SL-296-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

Sample ID: SL-297-SA5B-SS-0.0-0.5

Collected: 12/8/2010 9:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L

Sample ID: SL-308-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-003-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:52:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.63	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-004-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	59	J	36	MDL	90	PQL	ug/Kg	J	Z
CHRYSENE	80	J	18	MDL	90	PQL	ug/Kg	J	Z

Sample ID: SL-005-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	19	J	17	MDL	44	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	34	J	17	MDL	44	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	36	J	17	MDL	44	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	33	J	17	MDL	44	PQL	ug/Kg	J	Z

Sample ID: SL-026-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.86	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.4	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-032-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.76	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	6.7	J	6.5	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	1.0	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-032-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	1.0	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.90	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.82	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.6	MDL	20	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.3	J	6.6	MDL	20	PQL	ug/Kg	J	Z
PHENANTHRENE	0.81	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.6	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-039-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:48:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.80	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.53	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	6.6	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-230-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:48:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	1.3	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
FLUORENE	0.93	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-231-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:26:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.81	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.76	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.85	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	6.3	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	1.2	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-231-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:26:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	1.2	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-280-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:46:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.46	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.5	J	6.6	MDL	20	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.98	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.1	J	6.6	MDL	20	PQL	ug/Kg	J	Z
PHENANTHRENE	0.73	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-281-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	5.4	J	3.7	MDL	18	PQL	ug/Kg	J	Z
FLUORANTHENE	11	J	7.4	MDL	18	PQL	ug/Kg	J	Z
PHENANTHRENE	8.7	J	7.4	MDL	18	PQL	ug/Kg	J	Z
PYRENE	8.5	J	7.4	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-282-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.83	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.6	J	6.5	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.76	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.86	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-283-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.75	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.99	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-283-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	6.7	J	6.6	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.75	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-292-SA5B-SS-0.0-0.5

Collected: 12/9/2010 10:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.85	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.0	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.90	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.72	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-293-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	13	J	7.5	MDL	19	PQL	ug/Kg	J	Z
PYRENE	8.3	J	7.5	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-295-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:34:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.79	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.9	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	12	J	6.6	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.88	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-295-SA5B-SS-0.0-0.5

Collected: 12/8/2010 10:34:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-296-SA5B-SS-0.0-0.5

Collected: 12/8/2010 11:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	6.8	J	6.5	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.47	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	6.9	J	6.5	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-297-SA5B-SS-0.0-0.5

Collected: 12/8/2010 9:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	11	J	7.4	MDL	19	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	13	J	7.4	MDL	19	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	18	J	7.4	MDL	19	PQL	ug/Kg	J	Z
FLUORANTHENE	17	J	7.4	MDL	19	PQL	ug/Kg	J	Z
PHENANTHRENE	7.6	J	7.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-308-SA5B-SS-0.0-0.5

Collected: 12/8/2010 12:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	11	J	6.6	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	0.92	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.73	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE03 1

Method Blank Outlier Report

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 6010B Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34808CB222056	12/15/2010 8:56:00 PM	PHOSPHORUS TIN	0.668 mg/Kg 1.46 mg/Kg	SL-003-SA5B-SS-0.0-0.5 SL-004-SA5B-SS-0.0-0.5 SL-005-SA5B-SS-0.0-0.5 SL-026-SA5B-SS-0.0-0.5 SL-032-SA5B-SS-0.0-0.5 SL-038-SA5B-SS-0.0-0.5 SL-039-SA5B-SS-0.0-0.5 SL-230-SA5B-SS-0.0-0.5 SL-231-SA5B-SS-0.0-0.5 SL-280-SA5B-SS-0.0-0.5 SL-281-SA5B-SS-0.0-0.5 SL-282-SA5B-SS-0.0-0.5 SL-283-SA5B-SS-0.0-0.5 SL-292-SA5B-SS-0.0-0.5 SL-293-SA5B-SS-0.0-0.5 SL-295-SA5B-SS-0.0-0.5 SL-296-SA5B-SS-0.0-0.5 SL-297-SA5B-SS-0.0-0.5 SL-308-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-003-SA5B-SS-0.0-0.5(RES)	TIN	2.04 mg/Kg	2.04U mg/Kg
SL-004-SA5B-SS-0.0-0.5(RES)	TIN	2.08 mg/Kg	2.08U mg/Kg
SL-005-SA5B-SS-0.0-0.5(RES)	TIN	2.05 mg/Kg	2.05U mg/Kg
SL-026-SA5B-SS-0.0-0.5(RES)	TIN	1.99 mg/Kg	1.99U mg/Kg
SL-032-SA5B-SS-0.0-0.5(RES)	TIN	2.06 mg/Kg	2.06U mg/Kg
SL-038-SA5B-SS-0.0-0.5(RES)	TIN	1.96 mg/Kg	1.96U mg/Kg
SL-039-SA5B-SS-0.0-0.5(RES)	TIN	2.00 mg/Kg	2.00U mg/Kg
SL-230-SA5B-SS-0.0-0.5(RES)	TIN	1.58 mg/Kg	1.58U mg/Kg
SL-231-SA5B-SS-0.0-0.5(RES)	TIN	1.76 mg/Kg	1.76U mg/Kg
SL-280-SA5B-SS-0.0-0.5(RES)	TIN	2.29 mg/Kg	2.29U mg/Kg
SL-281-SA5B-SS-0.0-0.5(RES)	TIN	1.69 mg/Kg	1.69U mg/Kg
SL-282-SA5B-SS-0.0-0.5(RES)	TIN	1.86 mg/Kg	1.86U mg/Kg
SL-283-SA5B-SS-0.0-0.5(RES)	TIN	2.05 mg/Kg	2.05U mg/Kg
SL-292-SA5B-SS-0.0-0.5(RES)	TIN	1.79 mg/Kg	1.79U mg/Kg
SL-293-SA5B-SS-0.0-0.5(RES)	TIN	1.37 mg/Kg	1.37U mg/Kg
SL-295-SA5B-SS-0.0-0.5(RES)	TIN	2.00 mg/Kg	2.00U mg/Kg
SL-296-SA5B-SS-0.0-0.5(RES)	TIN	2.07 mg/Kg	2.07U mg/Kg
SL-297-SA5B-SS-0.0-0.5(RES)	TIN	1.72 mg/Kg	1.72U mg/Kg
SL-308-SA5B-SS-0.0-0.5(RES)	TIN	1.95 mg/Kg	1.95U mg/Kg

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Method Blank Outlier Report

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34826AB221211A	12/17/2010 12:11:00 PM	COPPER	0.0742 mg/Kg	SL-003-SA5B-SS-0.0-0.5 SL-004-SA5B-SS-0.0-0.5 SL-005-SA5B-SS-0.0-0.5 SL-026-SA5B-SS-0.0-0.5 SL-032-SA5B-SS-0.0-0.5 SL-038-SA5B-SS-0.0-0.5 SL-039-SA5B-SS-0.0-0.5 SL-230-SA5B-SS-0.0-0.5 SL-231-SA5B-SS-0.0-0.5 SL-280-SA5B-SS-0.0-0.5 SL-281-SA5B-SS-0.0-0.5 SL-282-SA5B-SS-0.0-0.5 SL-283-SA5B-SS-0.0-0.5 SL-292-SA5B-SS-0.0-0.5 SL-293-SA5B-SS-0.0-0.5 SL-295-SA5B-SS-0.0-0.5 SL-296-SA5B-SS-0.0-0.5 SL-297-SA5B-SS-0.0-0.5 SL-308-SA5B-SS-0.0-0.5

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-039-SA5B-SS-0.0-0.5MSD (SL-039-SA5B-SS-0.0-0.5)	DINOSEB	-	-	1.00-44.00	59 (35.00)	DINOSEB	J (all detects)

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-026-SA5B-SS-0.0-0.5MSD (SL-026-SA5B-SS-0.0-0.5)	N-NITROSODIPHENYLAMINE	-	84	86.00-145.00	-	N-NITROSODIPHENYLAMINE	J(all detects) UJ(all non-detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-026-SA5B-SS-0.0-0.5MS SL-026-SA5B-SS-0.0-0.5MSD (SL-003-SA5B-SS-0.0-0.5 SL-004-SA5B-SS-0.0-0.5 SL-005-SA5B-SS-0.0-0.5 SL-026-SA5B-SS-0.0-0.5 SL-032-SA5B-SS-0.0-0.5 SL-038-SA5B-SS-0.0-0.5 SL-039-SA5B-SS-0.0-0.5 SL-230-SA5B-SS-0.0-0.5 SL-231-SA5B-SS-0.0-0.5 SL-280-SA5B-SS-0.0-0.5 SL-281-SA5B-SS-0.0-0.5 SL-282-SA5B-SS-0.0-0.5 SL-283-SA5B-SS-0.0-0.5 SL-292-SA5B-SS-0.0-0.5 SL-293-SA5B-SS-0.0-0.5 SL-295-SA5B-SS-0.0-0.5 SL-296-SA5B-SS-0.0-0.5 SL-297-SA5B-SS-0.0-0.5 SL-308-SA5B-SS-0.0-0.5)	ZINC	149	142	75.00-125.00	-	ZINC	No Qual, >4x
SL-026-SA5B-SS-0.0-0.5MS SL-026-SA5B-SS-0.0-0.5MSD (SL-003-SA5B-SS-0.0-0.5 SL-004-SA5B-SS-0.0-0.5 SL-005-SA5B-SS-0.0-0.5 SL-026-SA5B-SS-0.0-0.5 SL-032-SA5B-SS-0.0-0.5 SL-038-SA5B-SS-0.0-0.5 SL-039-SA5B-SS-0.0-0.5 SL-230-SA5B-SS-0.0-0.5 SL-231-SA5B-SS-0.0-0.5 SL-280-SA5B-SS-0.0-0.5 SL-281-SA5B-SS-0.0-0.5 SL-282-SA5B-SS-0.0-0.5 SL-283-SA5B-SS-0.0-0.5 SL-292-SA5B-SS-0.0-0.5 SL-293-SA5B-SS-0.0-0.5 SL-295-SA5B-SS-0.0-0.5 SL-296-SA5B-SS-0.0-0.5 SL-297-SA5B-SS-0.0-0.5 SL-308-SA5B-SS-0.0-0.5)	ANTIMONY	29	28	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects) Sb Post-Spike = 104%

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-026-SA5B-SS-0.0-0.5MS SL-026-SA5B-SS-0.0-0.5MSD (SL-003-SA5B-SS-0.0-0.5 SL-004-SA5B-SS-0.0-0.5 SL-005-SA5B-SS-0.0-0.5 SL-026-SA5B-SS-0.0-0.5 SL-032-SA5B-SS-0.0-0.5 SL-038-SA5B-SS-0.0-0.5 SL-039-SA5B-SS-0.0-0.5 SL-230-SA5B-SS-0.0-0.5 SL-231-SA5B-SS-0.0-0.5 SL-280-SA5B-SS-0.0-0.5 SL-281-SA5B-SS-0.0-0.5 SL-282-SA5B-SS-0.0-0.5 SL-283-SA5B-SS-0.0-0.5 SL-292-SA5B-SS-0.0-0.5 SL-293-SA5B-SS-0.0-0.5 SL-295-SA5B-SS-0.0-0.5 SL-296-SA5B-SS-0.0-0.5 SL-297-SA5B-SS-0.0-0.5 SL-308-SA5B-SS-0.0-0.5)	BARIUM	126	55	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-026-SA5B-SS-0.0-0.5MS SL-026-SA5B-SS-0.0-0.5MSD (SL-003-SA5B-SS-0.0-0.5 SL-004-SA5B-SS-0.0-0.5 SL-005-SA5B-SS-0.0-0.5 SL-026-SA5B-SS-0.0-0.5 SL-032-SA5B-SS-0.0-0.5 SL-038-SA5B-SS-0.0-0.5 SL-039-SA5B-SS-0.0-0.5 SL-230-SA5B-SS-0.0-0.5 SL-231-SA5B-SS-0.0-0.5 SL-280-SA5B-SS-0.0-0.5 SL-281-SA5B-SS-0.0-0.5 SL-282-SA5B-SS-0.0-0.5 SL-283-SA5B-SS-0.0-0.5 SL-292-SA5B-SS-0.0-0.5 SL-293-SA5B-SS-0.0-0.5 SL-295-SA5B-SS-0.0-0.5 SL-296-SA5B-SS-0.0-0.5 SL-297-SA5B-SS-0.0-0.5 SL-308-SA5B-SS-0.0-0.5)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE POTASSIUM	2015 189 1637 289 157 138	2449 361 1800 282 144 134	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - -	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE POTASSIUM	J(all detects) Al, Ca, Fe, Mg, Mn No Qual, >4x

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA5B-SS-0.0-0.5MSD (SL-283-SA5B-SS-0.0-0.5)	Dimethylphthalate N-NITROSODIMETHYLAMINE	- -	119 114	74.00-118.00 48.00-113.00	- -	Dimethylphthalate N-NITROSODIMETHYLAMINE	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA5B-SS-0.0-0.5MS SL-283-SA5B-SS-0.0-0.5MSD (SL-003-SA5B-SS-0.0-0.5 SL-004-SA5B-SS-0.0-0.5 SL-005-SA5B-SS-0.0-0.5 SL-026-SA5B-SS-0.0-0.5 SL-032-SA5B-SS-0.0-0.5 SL-038-SA5B-SS-0.0-0.5 SL-039-SA5B-SS-0.0-0.5 SL-230-SA5B-SS-0.0-0.5 SL-231-SA5B-SS-0.0-0.5 SL-280-SA5B-SS-0.0-0.5 SL-281-SA5B-SS-0.0-0.5 SL-282-SA5B-SS-0.0-0.5 SL-283-SA5B-SS-0.0-0.5 SL-292-SA5B-SS-0.0-0.5 SL-293-SA5B-SS-0.0-0.5 SL-295-SA5B-SS-0.0-0.5 SL-296-SA5B-SS-0.0-0.5 SL-297-SA5B-SS-0.0-0.5 SL-308-SA5B-SS-0.0-0.5)	TITANIUM	435	373	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 314.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-231-SA5B-SS-0.0-0.5DUP (SL-003-SA5B-SS-0.0-0.5 SL -004-SA5B-SS-0.0-0.5 SL -005-SA5B-SS-0.0-0.5 SL -230-SA5B-SS-0.0-0.5 SL -231-SA5B-SS-0.0-0.5)	PERCHLORATE	200	20.00	No Qual OK by difference
SL-281-SA5B-SS-0.0-0.5DUP (SL-032-SA5B-SS-0.0-0.5 SL -281-SA5B-SS-0.0-0.5 SL -282-SA5B-SS-0.0-0.5 SL -283-SA5B-SS-0.0-0.5 SL -292-SA5B-SS-0.0-0.5 SL -293-SA5B-SS-0.0-0.5 SL -295-SA5B-SS-0.0-0.5 SL -296-SA5B-SS-0.0-0.5 SL -297-SA5B-SS-0.0-0.5 SL -308-SA5B-SS-0.0-0.5)	PERCHLORATE	200	20.00	No Qual OK by difference

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-026-SA5B-SS-0.0-0.5DUP (SL-003-SA5B-SS-0.0-0.5 SL -004-SA5B-SS-0.0-0.5 SL -005-SA5B-SS-0.0-0.5 SL -026-SA5B-SS-0.0-0.5 SL -032-SA5B-SS-0.0-0.5 SL -038-SA5B-SS-0.0-0.5 SL -039-SA5B-SS-0.0-0.5 SL -230-SA5B-SS-0.0-0.5 SL -231-SA5B-SS-0.0-0.5 SL -280-SA5B-SS-0.0-0.5 SL -281-SA5B-SS-0.0-0.5 SL -282-SA5B-SS-0.0-0.5 SL -283-SA5B-SS-0.0-0.5 SL -292-SA5B-SS-0.0-0.5 SL -293-SA5B-SS-0.0-0.5 SL -295-SA5B-SS-0.0-0.5 SL -296-SA5B-SS-0.0-0.5 SL -297-SA5B-SS-0.0-0.5 SL -308-SA5B-SS-0.0-0.5)	Zirconium	28	20.00	No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-026-SA5B-SS-0.0-0.5DUP (SL-003-SA5B-SS-0.0-0.5 SL-004-SA5B-SS-0.0-0.5 SL-005-SA5B-SS-0.0-0.5 SL-026-SA5B-SS-0.0-0.5 SL-032-SA5B-SS-0.0-0.5 SL-038-SA5B-SS-0.0-0.5 SL-039-SA5B-SS-0.0-0.5 SL-230-SA5B-SS-0.0-0.5 SL-231-SA5B-SS-0.0-0.5 SL-280-SA5B-SS-0.0-0.5 SL-281-SA5B-SS-0.0-0.5 SL-282-SA5B-SS-0.0-0.5 SL-283-SA5B-SS-0.0-0.5 SL-292-SA5B-SS-0.0-0.5 SL-293-SA5B-SS-0.0-0.5 SL-295-SA5B-SS-0.0-0.5 SL-296-SA5B-SS-0.0-0.5 SL-297-SA5B-SS-0.0-0.5 SL-308-SA5B-SS-0.0-0.5)	ANTIMONY COPPER MOLYBDENUM	31 26 22	20.00 20.00 20.00	J(all detects) UJ(all non-detects) Sb No Qual OK by difference

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-026-SA5B-SS-0.0-0.5DUP (SL-003-SA5B-SS-0.0-0.5 SL-004-SA5B-SS-0.0-0.5 SL-005-SA5B-SS-0.0-0.5 SL-026-SA5B-SS-0.0-0.5 SL-032-SA5B-SS-0.0-0.5 SL-038-SA5B-SS-0.0-0.5 SL-039-SA5B-SS-0.0-0.5 SL-230-SA5B-SS-0.0-0.5 SL-231-SA5B-SS-0.0-0.5 SL-280-SA5B-SS-0.0-0.5 SL-281-SA5B-SS-0.0-0.5 SL-282-SA5B-SS-0.0-0.5 SL-283-SA5B-SS-0.0-0.5 SL-292-SA5B-SS-0.0-0.5 SL-293-SA5B-SS-0.0-0.5 SL-295-SA5B-SS-0.0-0.5 SL-296-SA5B-SS-0.0-0.5 SL-297-SA5B-SS-0.0-0.5 SL-308-SA5B-SS-0.0-0.5)	HEXAVALENT CHROMIUM	88	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03472AQ241529A (SL-003-SA5B-SS-0.0-0.5 SL-004-SA5B-SS-0.0-0.5 SL-005-SA5B-SS-0.0-0.5 SL-026-SA5B-SS-0.0-0.5 SL-032-SA5B-SS-0.0-0.5 SL-038-SA5B-SS-0.0-0.5 SL-039-SA5B-SS-0.0-0.5 SL-230-SA5B-SS-0.0-0.5 SL-231-SA5B-SS-0.0-0.5 SL-280-SA5B-SS-0.0-0.5 SL-281-SA5B-SS-0.0-0.5 SL-282-SA5B-SS-0.0-0.5 SL-283-SA5B-SS-0.0-0.5 SL-292-SA5B-SS-0.0-0.5 SL-293-SA5B-SS-0.0-0.5 SL-295-SA5B-SS-0.0-0.5 SL-296-SA5B-SS-0.0-0.5 SL-297-SA5B-SS-0.0-0.5 SL-308-SA5B-SS-0.0-0.5)	DINOSEB	3	-	10.00-136.00	-	DINOSEB	J (all detects) R (all non-detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03555AQ242016A (SL-005-SA5B-SS-0.0-0.5 SL-026-SA5B-SS-0.0-0.5 SL-032-SA5B-SS-0.0-0.5 SL-039-SA5B-SS-0.0-0.5 SL-230-SA5B-SS-0.0-0.5 SL-231-SA5B-SS-0.0-0.5 SL-280-SA5B-SS-0.0-0.5 SL-281-SA5B-SS-0.0-0.5 SL-282-SA5B-SS-0.0-0.5 SL-283-SA5B-SS-0.0-0.5 SL-295-SA5B-SS-0.0-0.5 SL-296-SA5B-SS-0.0-0.5 SL-297-SA5B-SS-0.0-0.5 SL-308-SA5B-SS-0.0-0.5)	METHOXYCHLOR	129	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7LALCSQ261843 (SL -003-SA5B-SS-0.0-0.5 SL -004-SA5B-SS-0.0-0.5 SL -005-SA5B-SS-0.0-0.5 SL -026-SA5B-SS-0.0-0.5 SL -032-SA5B-SS-0.0-0.5 SL -038-SA5B-SS-0.0-0.5 SL -039-SA5B-SS-0.0-0.5 SL -230-SA5B-SS-0.0-0.5 SL -231-SA5B-SS-0.0-0.5 SL -280-SA5B-SS-0.0-0.5 SL -281-SA5B-SS-0.0-0.5 SL -282-SA5B-SS-0.0-0.5 SL -283-SA5B-SS-0.0-0.5 SL -292-SA5B-SS-0.0-0.5 SL -293-SA5B-SS-0.0-0.5 SL -295-SA5B-SS-0.0-0.5 SL -296-SA5B-SS-0.0-0.5 SL -297-SA5B-SS-0.0-0.5 SL -308-SA5B-SS-0.0-0.5)	3,3'-DICHLORO BENZIDINE	28	-	38.00-105.00	-	3,3'-DICHLORO BENZIDINE	J(all detects) UJ(all non-detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P34826AQ221214A (SL -003-SA5B-SS-0.0-0.5 SL -004-SA5B-SS-0.0-0.5 SL -005-SA5B-SS-0.0-0.5 SL -026-SA5B-SS-0.0-0.5 SL -032-SA5B-SS-0.0-0.5 SL -038-SA5B-SS-0.0-0.5 SL -039-SA5B-SS-0.0-0.5 SL -230-SA5B-SS-0.0-0.5 SL -231-SA5B-SS-0.0-0.5 SL -280-SA5B-SS-0.0-0.5 SL -281-SA5B-SS-0.0-0.5 SL -282-SA5B-SS-0.0-0.5 SL -283-SA5B-SS-0.0-0.5 SL -292-SA5B-SS-0.0-0.5 SL -293-SA5B-SS-0.0-0.5 SL -295-SA5B-SS-0.0-0.5 SL -296-SA5B-SS-0.0-0.5 SL -297-SA5B-SS-0.0-0.5 SL -308-SA5B-SS-0.0-0.5)	ANTIMONY	67	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-297-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	171	20.00-120.00	All Target Analytes	J(all detects)

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-026-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	155	45.00-120.00	All Target Analytes	J(all detects)
SL-281-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	121	45.00-120.00	All Target Analytes	J(all detects)
SL-295-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	130	45.00-120.00	All Target Analytes	J(all detects)

Method: 8270C SIM

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-005-SA5B-SS-0.0-0.5	Nitrobenzene-d5	149	40.00-130.00	No Affected Compounds	No Qual Diluted Out

Reporting Limit Outliers

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 314.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-281-SA5B-SS-0.0-0.5	PERCHLORATE	J	15.0	33.3	PQL	ug/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA5B-SS-0.0-0.5	TIN	J	2.04	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.981	5.38	PQL	mg/Kg	
SL-004-SA5B-SS-0.0-0.5	TIN	J	2.08	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.85	5.16	PQL	mg/Kg	
SL-005-SA5B-SS-0.0-0.5	TIN	J	2.05	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.53	5.25	PQL	mg/Kg	
SL-026-SA5B-SS-0.0-0.5	TIN	J	1.99	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.75	5.30	PQL	mg/Kg	
SL-032-SA5B-SS-0.0-0.5	TIN	J	2.06	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.33	5.42	PQL	mg/Kg	
SL-038-SA5B-SS-0.0-0.5	TIN	J	1.96	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.08	5.48	PQL	mg/Kg	
SL-039-SA5B-SS-0.0-0.5	TIN	J	2.00	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.11	5.31	PQL	mg/Kg	
SL-230-SA5B-SS-0.0-0.5	TIN	J	1.58	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.96	5.56	PQL	mg/Kg	
SL-231-SA5B-SS-0.0-0.5	TIN	J	1.76	10.0	PQL	mg/Kg	J (all detects)
SL-280-SA5B-SS-0.0-0.5	TIN	J	2.29	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.19	5.25	PQL	mg/Kg	
SL-281-SA5B-SS-0.0-0.5	TIN	J	1.69	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.989	5.44	PQL	mg/Kg	
SL-282-SA5B-SS-0.0-0.5	TIN	J	1.86	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.37	5.20	PQL	mg/Kg	
SL-283-SA5B-SS-0.0-0.5	TIN	J	2.05	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.31	5.46	PQL	mg/Kg	
SL-292-SA5B-SS-0.0-0.5	TIN	J	1.79	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.46	5.28	PQL	mg/Kg	
SL-293-SA5B-SS-0.0-0.5	TIN	J	1.37	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.99	5.54	PQL	mg/Kg	
SL-295-SA5B-SS-0.0-0.5	TIN	J	2.00	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.28	5.33	PQL	mg/Kg	
SL-296-SA5B-SS-0.0-0.5	TIN	J	2.07	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.54	5.24	PQL	mg/Kg	
SL-297-SA5B-SS-0.0-0.5	TIN	J	1.72	10.7	PQL	mg/Kg	J (all detects)
SL-308-SA5B-SS-0.0-0.5	SODIUM	J	84.6	105	PQL	mg/Kg	J (all detects)
	TIN	J	1.95	10.5	PQL	mg/Kg	
	Zirconium	J	2.02	5.25	PQL	mg/Kg	

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Reporting Limit Outliers

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA5B-SS-0.0-0.5	SELENIUM SILVER	J	0.0987	0.422	PQL	mg/Kg	J (all detects)
		J	0.0151	0.106	PQL	mg/Kg	
SL-004-SA5B-SS-0.0-0.5	SILVER	J	0.0192	0.105	PQL	mg/Kg	J (all detects)
SL-005-SA5B-SS-0.0-0.5	ANTIMONY SILVER	J	0.0933	0.200	PQL	mg/Kg	J (all detects)
		J	0.0609	0.0999	PQL	mg/Kg	
SL-026-SA5B-SS-0.0-0.5	ANTIMONY CADMIUM SELENIUM SILVER	J	0.0918	0.212	PQL	mg/Kg	J (all detects)
		J	0.0846	0.106	PQL	mg/Kg	
		J	0.115	0.424	PQL	mg/Kg	
		J	0.0204	0.106	PQL	mg/Kg	
SL-032-SA5B-SS-0.0-0.5	CADMIUM SELENIUM SILVER	J	0.0898	0.104	PQL	mg/Kg	J (all detects)
		J	0.133	0.417	PQL	mg/Kg	
		J	0.0283	0.104	PQL	mg/Kg	
SL-038-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.110	0.211	PQL	mg/Kg	J (all detects)
		J	0.0991	0.422	PQL	mg/Kg	
		J	0.0258	0.105	PQL	mg/Kg	
SL-039-SA5B-SS-0.0-0.5	CADMIUM SELENIUM SILVER	J	0.0740	0.109	PQL	mg/Kg	J (all detects)
		J	0.0987	0.437	PQL	mg/Kg	
		J	0.0182	0.109	PQL	mg/Kg	
SL-230-SA5B-SS-0.0-0.5	ANTIMONY SILVER	J	0.103	0.212	PQL	mg/Kg	J (all detects)
		J	0.0385	0.106	PQL	mg/Kg	
SL-231-SA5B-SS-0.0-0.5	ANTIMONY CADMIUM SELENIUM SILVER	J	0.113	0.201	PQL	mg/Kg	J (all detects)
		J	0.0941	0.100	PQL	mg/Kg	
		J	0.0883	0.401	PQL	mg/Kg	
		J	0.0405	0.100	PQL	mg/Kg	
SL-280-SA5B-SS-0.0-0.5	CADMIUM SELENIUM SILVER	J	0.0747	0.104	PQL	mg/Kg	J (all detects)
		J	0.0670	0.416	PQL	mg/Kg	
		J	0.0144	0.104	PQL	mg/Kg	
SL-281-SA5B-SS-0.0-0.5	CADMIUM SELENIUM SILVER	J	0.0683	0.111	PQL	mg/Kg	J (all detects)
		J	0.0620	0.444	PQL	mg/Kg	
		J	0.0158	0.111	PQL	mg/Kg	
SL-282-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.139	0.210	PQL	mg/Kg	J (all detects)
		J	0.120	0.420	PQL	mg/Kg	
		J	0.0435	0.105	PQL	mg/Kg	
SL-283-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.146	0.212	PQL	mg/Kg	J (all detects)
		J	0.121	0.424	PQL	mg/Kg	
		J	0.0162	0.106	PQL	mg/Kg	
SL-292-SA5B-SS-0.0-0.5	SELENIUM SILVER	J	0.287	0.418	PQL	mg/Kg	J (all detects)
		J	0.0282	0.105	PQL	mg/Kg	
SL-293-SA5B-SS-0.0-0.5	SELENIUM SILVER	J	0.148	0.434	PQL	mg/Kg	J (all detects)
		J	0.0352	0.109	PQL	mg/Kg	
SL-295-SA5B-SS-0.0-0.5	CADMIUM SELENIUM SILVER	J	0.104	0.109	PQL	mg/Kg	J (all detects)
		J	0.0985	0.435	PQL	mg/Kg	
		J	0.0277	0.109	PQL	mg/Kg	
SL-296-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.128	0.212	PQL	mg/Kg	J (all detects)
		J	0.232	0.423	PQL	mg/Kg	
		J	0.0218	0.106	PQL	mg/Kg	
SL-297-SA5B-SS-0.0-0.5	SELENIUM SILVER	J	0.0872	0.428	PQL	mg/Kg	J (all detects)
		J	0.0230	0.107	PQL	mg/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-308-SA5B-SS-0.0-0.5	SELENIUM SILVER	J J	0.111 0.0219	0.437 0.109	PQL PQL	mg/Kg mg/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.25	1.1	PQL	mg/Kg	J (all detects)
SL-230-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.31	1.1	PQL	mg/Kg	J (all detects)
SL-292-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA5B-SS-0.0-0.5	MERCURY	J	0.0055	0.103	PQL	mg/Kg	J (all detects)
SL-004-SA5B-SS-0.0-0.5	MERCURY	J	0.0240	0.106	PQL	mg/Kg	J (all detects)
SL-005-SA5B-SS-0.0-0.5	MERCURY	J	0.0152	0.0979	PQL	mg/Kg	J (all detects)
SL-026-SA5B-SS-0.0-0.5	MERCURY	J	0.0067	0.104	PQL	mg/Kg	J (all detects)
SL-032-SA5B-SS-0.0-0.5	MERCURY	J	0.0123	0.105	PQL	mg/Kg	J (all detects)
SL-038-SA5B-SS-0.0-0.5	MERCURY	J	0.0153	0.105	PQL	mg/Kg	J (all detects)
SL-039-SA5B-SS-0.0-0.5	MERCURY	J	0.0082	0.103	PQL	mg/Kg	J (all detects)
SL-230-SA5B-SS-0.0-0.5	MERCURY	J	0.0337	0.110	PQL	mg/Kg	J (all detects)
SL-231-SA5B-SS-0.0-0.5	MERCURY	J	0.0161	0.102	PQL	mg/Kg	J (all detects)
SL-280-SA5B-SS-0.0-0.5	MERCURY	J	0.0141	0.104	PQL	mg/Kg	J (all detects)
SL-281-SA5B-SS-0.0-0.5	MERCURY	J	0.0114	0.107	PQL	mg/Kg	J (all detects)
SL-282-SA5B-SS-0.0-0.5	MERCURY	J	0.0075	0.107	PQL	mg/Kg	J (all detects)
SL-283-SA5B-SS-0.0-0.5	MERCURY	J	0.0126	0.103	PQL	mg/Kg	J (all detects)
SL-292-SA5B-SS-0.0-0.5	MERCURY	J	0.0151	0.103	PQL	mg/Kg	J (all detects)
SL-293-SA5B-SS-0.0-0.5	MERCURY	J	0.0144	0.105	PQL	mg/Kg	J (all detects)
SL-295-SA5B-SS-0.0-0.5	MERCURY	J	0.0097	0.108	PQL	mg/Kg	J (all detects)
SL-296-SA5B-SS-0.0-0.5	MERCURY	J	0.0067	0.105	PQL	mg/Kg	J (all detects)
SL-297-SA5B-SS-0.0-0.5	MERCURY	J	0.0070	0.105	PQL	mg/Kg	J (all detects)
SL-308-SA5B-SS-0.0-0.5	MERCURY	J	0.0121	0.103	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA5B-SS-0.0-0.5	MIREX	J	9.8	18	PQL	ug/Kg	J (all detects)
SL-038-SA5B-SS-0.0-0.5	BETA-BHC	J	0.10	0.18	PQL	ug/Kg	J (all detects)
SL-231-SA5B-SS-0.0-0.5	HEPTACHLOR EPOXIDE	J	0.055	0.17	PQL	ug/Kg	J (all detects)
SL-292-SA5B-SS-0.0-0.5	4,4'-DDT	J	0.097	0.36	PQL	ug/Kg	J (all detects)
	DIELDRIN	J	0.086	0.36	PQL	ug/Kg	
	MIREX	J	0.092	0.36	PQL	ug/Kg	
SL-296-SA5B-SS-0.0-0.5	4,4'-DDE	J	0.27	0.37	PQL	ug/Kg	J (all detects)
SL-297-SA5B-SS-0.0-0.5	BETA-BHC	J	0.087	0.18	PQL	ug/Kg	J (all detects)
SL-308-SA5B-SS-0.0-0.5	4,4'-DDD	J	0.086	0.37	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.47	1.8	PQL	ug/Kg	J (all detects)
SL-004-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.64	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.72	1.8	PQL	ug/Kg	
SL-005-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.68	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.50	1.8	PQL	ug/Kg	
SL-026-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.49	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.87	1.8	PQL	ug/Kg	
	Aroclor 5460	J	1.5	3.5	PQL	ug/Kg	
SL-032-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.80	1.8	PQL	ug/Kg	J (all detects)
SL-038-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.62	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.52	1.9	PQL	ug/Kg	
	Aroclor 5460	J	1.5	3.6	PQL	ug/Kg	
SL-039-SA5B-SS-0.0-0.5	Aroclor 5460	J	1.8	3.6	PQL	ug/Kg	J (all detects)
SL-231-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.76	1.8	PQL	ug/Kg	J (all detects)
SL-280-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.93	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.86	1.9	PQL	ug/Kg	
SL-281-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.3	1.9	PQL	ug/Kg	J (all detects)
SL-282-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.50	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.79	1.8	PQL	ug/Kg	
	Aroclor 5460	J	1.3	3.6	PQL	ug/Kg	
SL-283-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.59	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.47	1.9	PQL	ug/Kg	
SL-293-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.99	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.1	1.9	PQL	ug/Kg	
SL-295-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.41	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.60	1.9	PQL	ug/Kg	
SL-296-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.59	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.6	3.6	PQL	ug/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-297-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.68	1.9	PQL	ug/Kg	

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-032-SA5B-SS-0.0-0.5	MCPA	J	170	270	PQL	ug/Kg	J (all detects)
	MCPP	J	160	270	PQL	ug/Kg	
SL-283-SA5B-SS-0.0-0.5	MCPA	J	120	270	PQL	ug/Kg	J (all detects)
SL-293-SA5B-SS-0.0-0.5	2,4-DB	J	1.6	1.9	PQL	ug/Kg	J (all detects)
	DICHLOROPROP	J	1.4	1.9	PQL	ug/Kg	
SL-297-SA5B-SS-0.0-0.5	MCPP	J	270	280	PQL	ug/Kg	J (all detects)
SL-308-SA5B-SS-0.0-0.5	2,4-DB	J	1.2	1.9	PQL	ug/Kg	J (all detects)
	MCPP	J	200	270	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	21	180	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	21	180	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	360	PQL	ug/Kg	
	CHRYSENE	J	49	180	PQL	ug/Kg	
	FLUORANTHENE	J	87	180	PQL	ug/Kg	
	PHENANTHRENE	J	35	180	PQL	ug/Kg	
	PYRENE	J	69	180	PQL	ug/Kg	
SL-005-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	52	350	PQL	ug/Kg	J (all detects)
SL-038-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	71	180	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	44	180	PQL	ug/Kg	
	CHRYSENE	J	140	180	PQL	ug/Kg	
	FLUORANTHENE	J	24	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	67	180	PQL	ug/Kg	
SL-039-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	360	PQL	ug/Kg	J (all detects)
SL-230-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	26	370	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.63	1.8	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.8	PQL	ug/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	59	90	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	80	90	PQL	ug/Kg	
SL-005-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	19	44	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	34	44	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	36	44	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	33	44	PQL	ug/Kg	
SL-026-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.86	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	19	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.8	PQL	ug/Kg	
SL-032-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.76	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.7	20	PQL	ug/Kg	
	FLUORANTHENE	J	1.0	1.8	PQL	ug/Kg	
SL-038-SA5B-SS-0.0-0.5	PYRENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.90	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.82	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.3	20	PQL	ug/Kg	
	PHENANTHRENE	J	0.81	1.8	PQL	ug/Kg	
SL-039-SA5B-SS-0.0-0.5	PYRENE	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	0.80	1.8	PQL	ug/Kg	
	CHRYSENE	J	0.53	1.8	PQL	ug/Kg	
SL-230-SA5B-SS-0.0-0.5	Di-n-butylphthalate	J	6.6	20	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.3	1.9	PQL	ug/Kg	
SL-231-SA5B-SS-0.0-0.5	FLUORENE	J	0.93	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.81	1.7	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.1	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.76	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.85	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	19	PQL	ug/Kg	
	CHRYSENE	J	1.2	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	1.7	PQL	ug/Kg	
	PYRENE	J	1.2	1.7	PQL	ug/Kg	
SL-280-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.46	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.5	20	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.98	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.1	20	PQL	ug/Kg	
	PHENANTHRENE	J	0.73	1.8	PQL	ug/Kg	
SL-281-SA5B-SS-0.0-0.5	CHRYSENE	J	5.4	18	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	11	18	PQL	ug/Kg	
	PHENANTHRENE	J	8.7	18	PQL	ug/Kg	
	PYRENE	J	8.5	18	PQL	ug/Kg	
SL-282-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.83	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.6	19	PQL	ug/Kg	
	CHRYSENE	J	0.76	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.86	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE031

Laboratory: LL

EDD Filename: DE031_v2

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-283-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.75	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.99	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	20	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.7	20	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.75	1.8	PQL	ug/Kg	
SL-292-SA5B-SS-0.0-0.5	PYRENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.5	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.85	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	19	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.0	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.90	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.72	1.8	PQL	ug/Kg	
SL-293-SA5B-SS-0.0-0.5	PYRENE	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	13	19	PQL	ug/Kg	
SL-295-SA5B-SS-0.0-0.5	PYRENE	J	8.3	19	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.3	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.79	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.9	20	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	12	20	PQL	ug/Kg	
	FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.88	1.8	PQL	ug/Kg	
SL-296-SA5B-SS-0.0-0.5	PYRENE	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.8	20	PQL	ug/Kg	
	CHRYSENE	J	0.47	1.8	PQL	ug/Kg	
SL-297-SA5B-SS-0.0-0.5	Di-n-butylphthalate	J	6.9	20	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	11	19	PQL	ug/Kg	
	BENZO(A)PYRENE	J	13	19	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	18	19	PQL	ug/Kg	
	FLUORANTHENE	J	17	19	PQL	ug/Kg	
SL-308-SA5B-SS-0.0-0.5	PHENANTHRENE	J	7.6	19	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.1	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	20	PQL	ug/Kg	
	FLUORANTHENE	J	0.92	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.8	PQL	ug/Kg	
	PYRENE	J	0.73	1.8	PQL	ug/Kg	

LDC #: 25750A4
SDG #: DE031
Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET ADR

Date: 7/1/11
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	mSP (Al, Ba, Ca, Fe, Mg, Mn, Zn > 4x) (Ti > 4x)
VII.	Duplicate Sample Analysis	N	Dup (Sb, Zn)
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/UJA
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	—	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil

1	SL-026-SA5B-SS-0.0-0.5	11	SL-282-SA5B-SS-0.0-0.5	21	(#1) mSP (exp/ms)	31
2	SL-038-SA5B-SS-0.0-0.5	12	SL-283-SA5B-SS-0.0-0.5	22	↓ DUP	32
3	SL-039-SA5B-SS-0.0-0.5	13	SL-292-SA5B-SS-0.0-0.5	23	(#7) mS (CH)	33
4	SL-280-SA5B-SS-0.0-0.5	14	SL-293-SA5B-SS-0.0-0.5	24	↓ mSP	34
5	SL-281-SA5B-SS-0.0-0.5	15	SL-231-SA5B-SS-0.0-0.5	25	↓ DUP	35
6	SL-295-SA5B-SS-0.0-0.5	16	SL-003-SA5B-SS-0.0-0.5	26	(#12) mS (ti)	36
7	SL-296-SA5B-SS-0.0-0.5	17	SL-230-SA5B-SS-0.0-0.5	27	↓ mSP	37
8	SL-297-SA5B-SS-0.0-0.5	18	SL-005-SA5B-SS-0.0-0.5	28	↓ DUP	38
9	SL-308-SA5B-SS-0.0-0.5	19	SL-004-SA5B-SS-0.0-0.5	29		39
10	SL-032-SA5B-SS-0.0-0.5	20	(#1) mS (exp/ms)	30		40

Notes: _____

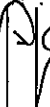
VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: 100x x MS: 2xdl

Sample Concentration units, unless otherwise noted: mg/Kg

Associated Samples: 3-10, 13, 14, 16, 19

Page: 1 of 1
 Reviewer: 
 2nd Reviewer: 

Analyte	Maximum PB* (mg/Kg)	Maximum PB* (ug/L)	Maximum ICB/CCB* (ug/L)	Action Limit	6	7												
Sb			0.91	0.91	0.31	0.13												

Sample Concentration units, unless otherwise noted: mg/Kg **Associated Samples:** 1, 2, 11, 12, 15, 17, 18

Analyte	Maximum PB* (mg/Kg)	Maximum PB* (ug/L)	Maximum ICB/CCB* (ug/L)	Action Limit	1	2	11	12	15	17	18							
Sb			0.45	0.45	0.092	0.11	0.14	0.15	0.11	0.10	0.093							

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.



QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: DE031

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6162774BKG

Serial Dilution Lab Sample ID: 6162774L

Batch ID(s): P34808C, P34826A

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		123739.7700		118248.5000		4		P
Antimony	121	0.4330	B	1.5000	U	100		MS
Arsenic	75	18.9100		19.6650		4		MS
Barium	137	403.6000		515.5000		28	E	MS
Beryllium	9	2.1300		2.8030		32		MS
Boron		111.3300		137.5000	B	24		P
Cadmium	111	0.3992	B	0.9000	U	100		MS
Calcium		33982.2100		34952.4000		3		P
Chromium	52	68.7100		84.3500		23	E	MS
Cobalt	59	22.3900		30.5700		37	E	MS
Copper	63	35.4700		44.3100		25	E	MS
Iron		173948.2500		168176.3000		3		P
Lead	208	24.9700		29.8950		20	E	MS
Lithium		176.2900		182.7500		4		P
Magnesium		37487.7100		37946.9000		1		P
Manganese		2343.2700		2434.2000		4		P
Molybdenum	98	2.5920		3.6800		42		MS
Nickel	60	41.9100		54.5000		30		MS
Phosphorus		3459.1400		3530.9500		2		P
Potassium		25391.6900		26461.7500		4		P
Selenium	78	0.5429	B	1.0000	U	100		MS
Silver	107	0.0963	B	0.3000	U	100		MS
Sodium		2141.0300		2083.8500	B	3		P
Strontium		208.1300		204.0000		2		P
Thallium	203	1.0960		1.0335	B	6		MS
Tin		18.7600	B	50.0000	U	100		P
Vanadium	51	136.8000		170.7500		25	E	MS
Zinc	66	237.4000		301.5000		27		MS
Zirconium		16.5000	B	42.0000	U	100		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:

P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:

DE031 3171

U= Below MDL

B= Below LOQ

FLAGS:

E = Matrix Effects exist as proven by
Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE032

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-307-SA5B-SS-0.0-0.5	6162815	N	3050B	6010B	III
08-Dec-2010	SL-307-SA5B-SS-0.0-0.5	6162815	N	3050B	6020	III
08-Dec-2010	SL-307-SA5B-SS-0.0-0.5	6162815	N	3060A	7199	III
08-Dec-2010	SL-307-SA5B-SS-0.0-0.5	6162815	N	3550B	8081A	III
08-Dec-2010	SL-307-SA5B-SS-0.0-0.5	6162815	N	3550B	8082	III
08-Dec-2010	SL-307-SA5B-SS-0.0-0.5	6162815	N	3550B	8151A	III
08-Dec-2010	SL-307-SA5B-SS-0.0-0.5	6162815	N	3550B	8270C	III
08-Dec-2010	SL-307-SA5B-SS-0.0-0.5	6162815	N	3550B	8270C SIM	III
08-Dec-2010	SL-307-SA5B-SS-0.0-0.5	6162815	N	Gen Prep	300.0	III
08-Dec-2010	SL-307-SA5B-SS-0.0-0.5	6162815	N	Gen Prep	9045M	III
08-Dec-2010	SL-307-SA5B-SS-0.0-0.5	6162815	N	METHOD	314.0	III
08-Dec-2010	SL-307-SA5B-SS-0.0-0.5	6162815	N	METHOD	7471A	III
08-Dec-2010	SL-294-SA5B-SS-0.0-0.5	6162814	N	3050B	6010B	III
08-Dec-2010	SL-294-SA5B-SS-0.0-0.5	6162814	N	3050B	6020	III
08-Dec-2010	SL-294-SA5B-SS-0.0-0.5	6162814	N	3060A	7199	III
08-Dec-2010	SL-294-SA5B-SS-0.0-0.5	6162814	N	3550B	8081A	III
08-Dec-2010	SL-294-SA5B-SS-0.0-0.5	6162814	N	3550B	8082	III
08-Dec-2010	SL-294-SA5B-SS-0.0-0.5	6162814	N	3550B	8151A	III
08-Dec-2010	SL-294-SA5B-SS-0.0-0.5	6162814	N	3550B	8270C	III
08-Dec-2010	SL-294-SA5B-SS-0.0-0.5	6162814	N	3550B	8270C SIM	III
08-Dec-2010	SL-294-SA5B-SS-0.0-0.5	6162814	N	Gen Prep	300.0	III
08-Dec-2010	SL-294-SA5B-SS-0.0-0.5	6162814	N	Gen Prep	9045M	III
08-Dec-2010	SL-294-SA5B-SS-0.0-0.5	6162814	N	METHOD	314.0	III
08-Dec-2010	SL-294-SA5B-SS-0.0-0.5	6162814	N	METHOD	7471A	III
08-Dec-2010	SL-031-SA5B-SS-0.0-0.5	6162813	N	3050B	6010B	III
08-Dec-2010	SL-031-SA5B-SS-0.0-0.5	6162813	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-031-SA5B-SS-0.0-0.5	6162813	N	3060A	7199	III
08-Dec-2010	SL-031-SA5B-SS-0.0-0.5	6162813	N	3550B	8081A	III
08-Dec-2010	SL-031-SA5B-SS-0.0-0.5	6162813	N	3550B	8082	III
08-Dec-2010	SL-031-SA5B-SS-0.0-0.5	6162813	N	3550B	8151A	III
08-Dec-2010	SL-031-SA5B-SS-0.0-0.5	6162813	N	3550B	8270C	III
08-Dec-2010	SL-031-SA5B-SS-0.0-0.5	6162813	N	3550B	8270C SIM	III
08-Dec-2010	SL-031-SA5B-SS-0.0-0.5	6162813	N	Gen Prep	300.0	III
08-Dec-2010	SL-031-SA5B-SS-0.0-0.5	6162813	N	Gen Prep	9045M	III
08-Dec-2010	SL-031-SA5B-SS-0.0-0.5	6162813	N	METHOD	314.0	III
08-Dec-2010	SL-031-SA5B-SS-0.0-0.5	6162813	N	METHOD	7471A	III
08-Dec-2010	DUP01-SA5B-QC-120810	6162816	FD	3050B	6010B	III
08-Dec-2010	DUP01-SA5B-QC-120810	6162816	FD	3050B	6020	III
08-Dec-2010	DUP01-SA5B-QC-120810	6162816	FD	3060A	7199	III
08-Dec-2010	DUP01-SA5B-QC-120810	6162816	FD	3550B	8081A	III
08-Dec-2010	DUP01-SA5B-QC-120810	6162816	FD	3550B	8082	III
08-Dec-2010	DUP01-SA5B-QC-120810	6162816	FD	3550B	8151A	III
08-Dec-2010	DUP01-SA5B-QC-120810	6162816	FD	3550B	8270C	III
08-Dec-2010	DUP01-SA5B-QC-120810	6162816	FD	3550B	8270C SIM	III
08-Dec-2010	DUP01-SA5B-QC-120810	6162816	FD	Gen Prep	300.0	III
08-Dec-2010	DUP01-SA5B-QC-120810	6162816	FD	Gen Prep	9045M	III
08-Dec-2010	DUP01-SA5B-QC-120810	6162816	FD	METHOD	314.0	III
08-Dec-2010	DUP01-SA5B-QC-120810	6162816	FD	METHOD	7471A	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	3050B	6010B	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	3050B	6020	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	3060A	7199	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	3546	1625C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	3550B	8015B	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	3550B	8015M	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	3550B	8081A	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	3550B	8082	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	3550B	8151A	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	3550B	8270C	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	3550B	8270C SIM	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	5035	8015M	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	5035	8260B	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	5035	8260B SIM	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	8330	8330A	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	Gen Prep	300.0	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	Gen Prep	9045M	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	METHOD	314.0	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	METHOD	7471A	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	METHOD	8015B	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	METHOD	8015M	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	METHOD	8315A	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5	6162812	N	METHOD	9012B	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5DUP	P162812D270229A	DUP	Gen Prep	300.0	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5MSD	P162812M240003A	MSD	METHOD	8315A	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5MSD	P162812M320036A	MSD	3550B	8015B	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5MS	P162812R211543A	MS	5035	8260B	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5MS	P162812R242354A	MS	METHOD	8315A	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5MS	P162812R270243A	MS	Gen Prep	300.0	III
08-Dec-2010	SL-022-SA5B-SS-0.0-0.5MS	P162812R322351A	MS	3550B	8015B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	3050B	6010B	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	3050B	6020	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	3060A	7199	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	3546	1625C	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	3550B	8015B	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	3550B	8081A	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	3550B	8082	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	3550B	8151A	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	3550B	8270C	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	3550B	8270C SIM	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	5035	8015M	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	5035	8260B	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	5035	8260B SIM	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	8330	8330A	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	Gen Prep	300.0	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	Gen Prep	9045M	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	METHOD	314.0	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	METHOD	7471A	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	METHOD	8015B	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	METHOD	8015M	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	METHOD	8315A	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5	6162828	N	METHOD	9012B	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5MSD	P162828M261740	MSD	3546	1625C	III
09-Dec-2010	SL-020-SA5B-SS-0.0-0.5MS	P162828R261706	MS	3546	1625C	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	3050B	6010B	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	3050B	6020	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	3060A	7199	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	3546	1625C	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	3550B	8015B	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	3550B	8081A	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	3550B	8082	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	3550B	8151A	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	3550B	8270C	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	3550B	8270C SIM	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	5035	8015M	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	5035	8260B	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	5035	8260B SIM	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	8330	8330A	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	Gen Prep	300.0	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	Gen Prep	9045M	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	METHOD	314.0	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	METHOD	6850	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	METHOD	7471A	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	METHOD	8015B	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	METHOD	8015M	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	METHOD	8315A	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5	6162827	N	METHOD	9012B	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5DUP	P162827D271938A	DUP	METHOD	9012B	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5DUP	P162827D290900A	DUP	Gen Prep	9045M	III
09-Dec-2010	SL-018-SA5B-SS-0.0-0.5MS	P162827R271939A	MS	METHOD	9012B	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	3050B	6010B	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	3060A	7199	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	3546	1625C	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	3550B	8015B	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	3550B	8081A	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	3550B	8082	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	3550B	8151A	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	3550B	8270C	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	3550B	8270C SIM	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	5035	8015M	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	5035	8260B	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	5035	8260B SIM	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	8330	8330A	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	Gen Prep	300.0	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	Gen Prep	9045M	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	METHOD	314.0	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	METHOD	7471A	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	METHOD	8015B	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	METHOD	8015M	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	METHOD	8315A	III
09-Dec-2010	SL-011-SA5B-SS-0.0-0.5	6162817	N	METHOD	9012B	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	3050B	6010B	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	3050B	6020	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	3060A	7199	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	3546	1625C	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	3550B	8015B	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	3550B	8081A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	3550B	8082	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	3550B	8151A	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	3550B	8270C	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	3550B	8270C SIM	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	5035	8015M	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	5035	8260B	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	5035	8260B SIM	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	8330	8330A	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	Gen Prep	300.0	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	Gen Prep	9045M	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	METHOD	314.0	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	METHOD	7471A	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	METHOD	8015B	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	METHOD	8015M	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	METHOD	8315A	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5	6162818	N	METHOD	9012B	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5MSD	P162818M241725A	MSD	8330	8330A	III
09-Dec-2010	SL-014-SA5B-SS-0.0-0.5MS	P162818R241642A	MS	8330	8330A	III
09-Dec-2010	SL-306-SA5B-SS-0.0-0.5	6162829	N	3050B	6010B	III
09-Dec-2010	SL-306-SA5B-SS-0.0-0.5	6162829	N	3050B	6020	III
09-Dec-2010	SL-306-SA5B-SS-0.0-0.5	6162829	N	3060A	7199	III
09-Dec-2010	SL-306-SA5B-SS-0.0-0.5	6162829	N	3550B	8081A	III
09-Dec-2010	SL-306-SA5B-SS-0.0-0.5	6162829	N	3550B	8082	III
09-Dec-2010	SL-306-SA5B-SS-0.0-0.5	6162829	N	3550B	8151A	III
09-Dec-2010	SL-306-SA5B-SS-0.0-0.5	6162829	N	3550B	8270C	III
09-Dec-2010	SL-306-SA5B-SS-0.0-0.5	6162829	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-306-SA5B-SS-0.0-0.5	6162829	N	Gen Prep	300.0	III
09-Dec-2010	SL-306-SA5B-SS-0.0-0.5	6162829	N	Gen Prep	9045M	III
09-Dec-2010	SL-306-SA5B-SS-0.0-0.5	6162829	N	METHOD	314.0	III
09-Dec-2010	SL-306-SA5B-SS-0.0-0.5	6162829	N	METHOD	7471A	III
09-Dec-2010	SL-001-SA5B-SS-0.0-0.5	6162819	N	3050B	6010B	III
09-Dec-2010	SL-001-SA5B-SS-0.0-0.5	6162819	N	3050B	6020	III
09-Dec-2010	SL-001-SA5B-SS-0.0-0.5	6162819	N	3060A	7199	III
09-Dec-2010	SL-001-SA5B-SS-0.0-0.5	6162819	N	3550B	8081A	III
09-Dec-2010	SL-001-SA5B-SS-0.0-0.5	6162819	N	3550B	8082	III
09-Dec-2010	SL-001-SA5B-SS-0.0-0.5	6162819	N	3550B	8151A	III
09-Dec-2010	SL-001-SA5B-SS-0.0-0.5	6162819	N	3550B	8270C	III
09-Dec-2010	SL-001-SA5B-SS-0.0-0.5	6162819	N	3550B	8270C SIM	III
09-Dec-2010	SL-001-SA5B-SS-0.0-0.5	6162819	N	Gen Prep	300.0	III
09-Dec-2010	SL-001-SA5B-SS-0.0-0.5	6162819	N	Gen Prep	9045M	III
09-Dec-2010	SL-001-SA5B-SS-0.0-0.5	6162819	N	METHOD	314.0	III
09-Dec-2010	SL-001-SA5B-SS-0.0-0.5	6162819	N	METHOD	6850	III
09-Dec-2010	SL-001-SA5B-SS-0.0-0.5	6162819	N	METHOD	7471A	III
09-Dec-2010	SL-010-SA5B-SS-0.0-0.5	6162821	N	3050B	6010B	III
09-Dec-2010	SL-010-SA5B-SS-0.0-0.5	6162821	N	3050B	6020	III
09-Dec-2010	SL-010-SA5B-SS-0.0-0.5	6162821	N	3060A	7199	III
09-Dec-2010	SL-010-SA5B-SS-0.0-0.5	6162821	N	3550B	8081A	III
09-Dec-2010	SL-010-SA5B-SS-0.0-0.5	6162821	N	3550B	8082	III
09-Dec-2010	SL-010-SA5B-SS-0.0-0.5	6162821	N	3550B	8151A	III
09-Dec-2010	SL-010-SA5B-SS-0.0-0.5	6162821	N	3550B	8270C	III
09-Dec-2010	SL-010-SA5B-SS-0.0-0.5	6162821	N	3550B	8270C SIM	III
09-Dec-2010	SL-010-SA5B-SS-0.0-0.5	6162821	N	Gen Prep	300.0	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-010-SA5B-SS-0.0-0.5	6162821	N	Gen Prep	9045M	III
09-Dec-2010	SL-010-SA5B-SS-0.0-0.5	6162821	N	METHOD	314.0	III
09-Dec-2010	SL-010-SA5B-SS-0.0-0.5	6162821	N	METHOD	6850	III
09-Dec-2010	SL-010-SA5B-SS-0.0-0.5	6162821	N	METHOD	7471A	III
09-Dec-2010	SL-006-SA5B-SS-0.0-0.5	6162820	N	3050B	6010B	III
09-Dec-2010	SL-006-SA5B-SS-0.0-0.5	6162820	N	3050B	6020	III
09-Dec-2010	SL-006-SA5B-SS-0.0-0.5	6162820	N	3060A	7199	III
09-Dec-2010	SL-006-SA5B-SS-0.0-0.5	6162820	N	3550B	8081A	III
09-Dec-2010	SL-006-SA5B-SS-0.0-0.5	6162820	N	3550B	8082	III
09-Dec-2010	SL-006-SA5B-SS-0.0-0.5	6162820	N	3550B	8151A	III
09-Dec-2010	SL-006-SA5B-SS-0.0-0.5	6162820	N	3550B	8270C	III
09-Dec-2010	SL-006-SA5B-SS-0.0-0.5	6162820	N	3550B	8270C SIM	III
09-Dec-2010	SL-006-SA5B-SS-0.0-0.5	6162820	N	Gen Prep	300.0	III
09-Dec-2010	SL-006-SA5B-SS-0.0-0.5	6162820	N	Gen Prep	9045M	III
09-Dec-2010	SL-006-SA5B-SS-0.0-0.5	6162820	N	METHOD	314.0	III
09-Dec-2010	SL-006-SA5B-SS-0.0-0.5	6162820	N	METHOD	6850	III
09-Dec-2010	SL-006-SA5B-SS-0.0-0.5	6162820	N	METHOD	7471A	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5	6162822	N	3050B	6010B	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5	6162822	N	3050B	6020	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5	6162822	N	3060A	7199	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5	6162822	N	3550B	8081A	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5	6162822	N	3550B	8082	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5	6162822	N	3550B	8151A	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5	6162822	N	3550B	8270C	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5	6162822	N	3550B	8270C SIM	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5	6162822	N	Gen Prep	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5	6162822	N	Gen Prep	9045M	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5	6162822	N	METHOD	314.0	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5	6162822	N	METHOD	6850	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5	6162822	N	METHOD	7471A	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MS	6162823	MS	3050B	6010B	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MS	6162823	MS	3050B	6020	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MS	6162823	MS	3060A	7199	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MS	6162823	MS	3550B	8081A	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MS	6162823	MS	3550B	8082	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MS	6162823	MS	3550B	8151A	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MS	6162823	MS	3550B	8270C	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MS	6162823	MS	3550B	8270C SIM	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MS	6162823	MS	Gen Prep	300.0	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MS	6162823	MS	METHOD	314.0	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MS	6162823	MS	METHOD	6850	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MS	6162823	MS	METHOD	7471A	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MSD	6162824	MSD	3050B	6010B	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MSD	6162824	MSD	3050B	6020	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MSD	6162824	MSD	3550B	8081A	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MSD	6162824	MSD	3550B	8082	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MSD	6162824	MSD	3550B	8151A	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MSD	6162824	MSD	3550B	8270C	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MSD	6162824	MSD	3550B	8270C SIM	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MSD	6162824	MSD	METHOD	6850	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MSD	6162824	MSD	METHOD	7471A	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5DUP	6162825	DUP	3050B	6010B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5DUP	6162825	DUP	3050B	6020	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5DUP	6162825	DUP	3060A	7199	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5DUP	6162825	DUP	Gen Prep	300.0	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5DUP	6162825	DUP	Gen Prep	9045M	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5DUP	6162825	DUP	METHOD	314.0	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5DUP	6162825	DUP	METHOD	7471A	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5DUP	P162822D270554B	DUP	Gen Prep	300.0	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MSD	P162822M242140A	MSD	3550B	8081A	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MS	P162822R242126A	MS	3550B	8081A	III
09-Dec-2010	SL-012-SA5B-SS-0.0-0.5MS	P162822R270609B	MS	Gen Prep	300.0	III
09-Dec-2010	DUP02-SA5B-QC-120910	6162830	FD	3050B	6010B	III
09-Dec-2010	DUP02-SA5B-QC-120910	6162830	FD	3050B	6020	III
09-Dec-2010	DUP02-SA5B-QC-120910	6162830	FD	3060A	7199	III
09-Dec-2010	DUP02-SA5B-QC-120910	6162830	FD	3550B	8081A	III
09-Dec-2010	DUP02-SA5B-QC-120910	6162830	FD	3550B	8082	III
09-Dec-2010	DUP02-SA5B-QC-120910	6162830	FD	3550B	8151A	III
09-Dec-2010	DUP02-SA5B-QC-120910	6162830	FD	3550B	8270C	III
09-Dec-2010	DUP02-SA5B-QC-120910	6162830	FD	3550B	8270C SIM	III
09-Dec-2010	DUP02-SA5B-QC-120910	6162830	FD	Gen Prep	300.0	III
09-Dec-2010	DUP02-SA5B-QC-120910	6162830	FD	Gen Prep	9045M	III
09-Dec-2010	DUP02-SA5B-QC-120910	6162830	FD	METHOD	314.0	III
09-Dec-2010	DUP02-SA5B-QC-120910	6162830	FD	METHOD	6850	III
09-Dec-2010	DUP02-SA5B-QC-120910	6162830	FD	METHOD	7471A	III
09-Dec-2010	SL-013-SA5B-SS-0.0-0.5	6162826	N	3050B	6010B	III
09-Dec-2010	SL-013-SA5B-SS-0.0-0.5	6162826	N	3050B	6020	III
09-Dec-2010	SL-013-SA5B-SS-0.0-0.5	6162826	N	3060A	7199	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-013-SA5B-SS-0.0-0.5	6162826	N	3550B	8081A	III
09-Dec-2010	SL-013-SA5B-SS-0.0-0.5	6162826	N	3550B	8082	III
09-Dec-2010	SL-013-SA5B-SS-0.0-0.5	6162826	N	3550B	8151A	III
09-Dec-2010	SL-013-SA5B-SS-0.0-0.5	6162826	N	3550B	8270C	III
09-Dec-2010	SL-013-SA5B-SS-0.0-0.5	6162826	N	3550B	8270C SIM	III
09-Dec-2010	SL-013-SA5B-SS-0.0-0.5	6162826	N	Gen Prep	300.0	III
09-Dec-2010	SL-013-SA5B-SS-0.0-0.5	6162826	N	Gen Prep	9045M	III
09-Dec-2010	SL-013-SA5B-SS-0.0-0.5	6162826	N	METHOD	314.0	III
09-Dec-2010	SL-013-SA5B-SS-0.0-0.5	6162826	N	METHOD	6850	III
09-Dec-2010	SL-013-SA5B-SS-0.0-0.5	6162826	N	METHOD	7471A	III
09-Dec-2010	SL-291-SA5B-SS-0.0-0.5	6162831	N	3050B	6010B	III
09-Dec-2010	SL-291-SA5B-SS-0.0-0.5	6162831	N	3050B	6020	III
09-Dec-2010	SL-291-SA5B-SS-0.0-0.5	6162831	N	3060A	7199	III
09-Dec-2010	SL-291-SA5B-SS-0.0-0.5	6162831	N	3550B	8081A	III
09-Dec-2010	SL-291-SA5B-SS-0.0-0.5	6162831	N	3550B	8082	III
09-Dec-2010	SL-291-SA5B-SS-0.0-0.5	6162831	N	3550B	8151A	III
09-Dec-2010	SL-291-SA5B-SS-0.0-0.5	6162831	N	3550B	8270C	III
09-Dec-2010	SL-291-SA5B-SS-0.0-0.5	6162831	N	3550B	8270C SIM	III
09-Dec-2010	SL-291-SA5B-SS-0.0-0.5	6162831	N	Gen Prep	300.0	III
09-Dec-2010	SL-291-SA5B-SS-0.0-0.5	6162831	N	Gen Prep	9045M	III
09-Dec-2010	SL-291-SA5B-SS-0.0-0.5	6162831	N	METHOD	314.0	III
09-Dec-2010	SL-291-SA5B-SS-0.0-0.5	6162831	N	METHOD	6850	III
09-Dec-2010	SL-291-SA5B-SS-0.0-0.5	6162831	N	METHOD	7471A	III
09-Dec-2010	SL-291-SA5B-SS-0.0-0.5DUP	P162831D272058B	DUP	METHOD	314.0	III
09-Dec-2010	SL-291-SA5B-SS-0.0-0.5MS	P162831R272122B	MS	METHOD	314.0	III
09-Dec-2010	SL-002-SA5B-SS-0.0-0.5	6162832	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-002-SA5B-SS-0.0-0.5	6162832	N	3050B	6020	III
09-Dec-2010	SL-002-SA5B-SS-0.0-0.5	6162832	N	3060A	7199	III
09-Dec-2010	SL-002-SA5B-SS-0.0-0.5	6162832	N	3550B	8081A	III
09-Dec-2010	SL-002-SA5B-SS-0.0-0.5	6162832	N	3550B	8082	III
09-Dec-2010	SL-002-SA5B-SS-0.0-0.5	6162832	N	3550B	8151A	III
09-Dec-2010	SL-002-SA5B-SS-0.0-0.5	6162832	N	3550B	8270C	III
09-Dec-2010	SL-002-SA5B-SS-0.0-0.5	6162832	N	3550B	8270C SIM	III
09-Dec-2010	SL-002-SA5B-SS-0.0-0.5	6162832	N	Gen Prep	300.0	III
09-Dec-2010	SL-002-SA5B-SS-0.0-0.5	6162832	N	Gen Prep	9045M	III
09-Dec-2010	SL-002-SA5B-SS-0.0-0.5	6162832	N	METHOD	314.0	III
09-Dec-2010	SL-002-SA5B-SS-0.0-0.5	6162832	N	METHOD	7471A	III
09-Dec-2010	SL-007-SA5B-SS-0.0-0.5	6162833	N	3050B	6010B	III
09-Dec-2010	SL-007-SA5B-SS-0.0-0.5	6162833	N	3050B	6020	III
09-Dec-2010	SL-007-SA5B-SS-0.0-0.5	6162833	N	3060A	7199	III
09-Dec-2010	SL-007-SA5B-SS-0.0-0.5	6162833	N	3550B	8081A	III
09-Dec-2010	SL-007-SA5B-SS-0.0-0.5	6162833	N	3550B	8082	III
09-Dec-2010	SL-007-SA5B-SS-0.0-0.5	6162833	N	3550B	8151A	III
09-Dec-2010	SL-007-SA5B-SS-0.0-0.5	6162833	N	3550B	8270C	III
09-Dec-2010	SL-007-SA5B-SS-0.0-0.5	6162833	N	3550B	8270C SIM	III
09-Dec-2010	SL-007-SA5B-SS-0.0-0.5	6162833	N	Gen Prep	9045M	III
09-Dec-2010	SL-007-SA5B-SS-0.0-0.5	6162833	N	METHOD	300.0	III
09-Dec-2010	SL-007-SA5B-SS-0.0-0.5	6162833	N	METHOD	314.0	III
09-Dec-2010	SL-007-SA5B-SS-0.0-0.5	6162833	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM								
Method:	300.0	Matrix: SO							

Sample ID: SL-011-SA5B-SS-0.0-0.5			Collected: 12/9/2010 9:05:00			Analysis Type: RES			Dilution: 1
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.4	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA5B-SS-0.0-0.5			Collected: 12/9/2010 1:07:00			Analysis Type: RES			Dilution: 1
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.0	J	0.87	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA5B-SS-0.0-0.5			Collected: 12/9/2010 9:15:00			Analysis Type: RES			Dilution: 1
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.3	J	0.89	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-018-SA5B-SS-0.0-0.5			Collected: 12/9/2010 8:45:00			Analysis Type: RES			Dilution: 1
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.3	J	0.88	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA5B-SS-0.0-0.5			Collected: 12/9/2010 8:40:00			Analysis Type: RES			Dilution: 1
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.4	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

Method Category:	GENCHEM								
Method:	314.0	Matrix: SO							

Sample ID: SL-306-SA5B-SS-0.0-0.5			Collected: 12/9/2010 9:27:00			Analysis Type: RES			Dilution: 1
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	11.6	J	9.9	MDL	33.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: DUP01-SA5B-QC-120810

Collected: 12/8/2010 3:32:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.74	J	0.907	MDL	5.40	PQL	mg/Kg	J	Z

Sample ID: DUP01-SA5B-QC-120810

Collected: 12/8/2010 3:32:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.23	J	0.961	MDL	5.40	PQL	mg/Kg	J	Z
STRONTIUM	29.5		0.0669	MDL	0.540	PQL	mg/Kg	J	E
TIN	1.73	J	1.08	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: DUP02-SA5B-QC-120910

Collected: 12/9/2010 12:50:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.45	J	0.902	MDL	5.37	PQL	mg/Kg	J	Z, FD

Sample ID: DUP02-SA5B-QC-120910

Collected: 12/9/2010 12:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.74	J	0.956	MDL	5.37	PQL	mg/Kg	J	Z
STRONTIUM	36.9		0.0666	MDL	0.537	PQL	mg/Kg	J	E
TIN	1.15	J	1.07	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-001-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:53:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.90	J	0.876	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.69	J	0.928	MDL	5.21	PQL	mg/Kg	J	Z
STRONTIUM	31.4		0.0647	MDL	0.521	PQL	mg/Kg	J	E
TIN	1.90	J	1.04	MDL	10.4	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-002-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:10:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	0.968	J	0.877	MDL	5.22	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.31	J	0.930	MDL	5.22	PQL	mg/Kg	J	Z
STRONTIUM	19.1		0.0648	MDL	0.522	PQL	mg/Kg	J	E
TIN	1.90	J	1.04	MDL	10.4	PQL	mg/Kg	U	B

Sample ID: SL-006-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:45:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.51	J	0.901	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.20	J	0.955	MDL	5.36	PQL	mg/Kg	J	Z
STRONTIUM	42.5		0.0665	MDL	0.536	PQL	mg/Kg	J	E
TIN	1.52	J	1.07	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-007-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:50:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.00	J	0.867	MDL	5.16	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.64	J	0.918	MDL	5.16	PQL	mg/Kg	J	Z
STRONTIUM	36.4		0.0640	MDL	0.516	PQL	mg/Kg	J	E
TIN	1.79	J	1.03	MDL	10.3	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-010-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:35:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.12	J	0.917	MDL	5.46	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.62	J	0.972	MDL	5.46	PQL	mg/Kg	J	Z
STRONTIUM	30.3		0.0677	MDL	0.546	PQL	mg/Kg	J	E
TIN	1.90	J	1.09	MDL	10.9	PQL	mg/Kg	U	B

Sample ID: SL-011-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.25	J	0.943	MDL	5.30	PQL	mg/Kg	J	Z
STRONTIUM	27.5		0.0657	MDL	0.530	PQL	mg/Kg	J	E
TIN	4.36	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

Sample ID: SL-012-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:47:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	4.45	J	0.918	MDL	5.46	PQL	mg/Kg	J	Z, FD

Sample ID: SL-012-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.93	J	0.973	MDL	5.46	PQL	mg/Kg	J	Z
STRONTIUM	45.5		0.0678	MDL	0.546	PQL	mg/Kg	J	E
TIN	1.86	J	1.09	MDL	10.9	PQL	mg/Kg	U	B

Sample ID: SL-013-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:07:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.98	J	0.876	MDL	5.21	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-013-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.35	J	0.928	MDL	5.21	PQL	mg/Kg	J	Z
STRONTIUM	35.6		0.0647	MDL	0.521	PQL	mg/Kg	J	E
TIN	1.81	J	1.04	MDL	10.4	PQL	mg/Kg	U	B

Sample ID: SL-014-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:15:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.33	J	0.906	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.15	J	0.960	MDL	5.39	PQL	mg/Kg	J	Z
STRONTIUM	38.4		0.0669	MDL	0.539	PQL	mg/Kg	J	E
TIN	1.75	J	1.08	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-018-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:45:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.77	J	0.915	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-018-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.53	J	0.969	MDL	5.45	PQL	mg/Kg	J	Z
STRONTIUM	44.5		0.0675	MDL	0.545	PQL	mg/Kg	J	E
TIN	1.62	J	1.09	MDL	10.9	PQL	mg/Kg	U	B

Sample ID: SL-020-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:40:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.77	J	0.917	MDL	5.46	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-020-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.16	J	0.972	MDL	5.46	PQL	mg/Kg	J	Z
STRONTIUM	35.3		0.0677	MDL	0.546	PQL	mg/Kg	J	E
TIN	1.91	J	1.09	MDL	10.9	PQL	mg/Kg	U	B

Sample ID: SL-022-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:45:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.76	J	0.901	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.20	J	0.955	MDL	5.36	PQL	mg/Kg	J	Z
STRONTIUM	24.9		0.0665	MDL	0.536	PQL	mg/Kg	J	E
TIN	2.57	J	1.07	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-031-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:15:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.49	J	0.896	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.82	J	0.949	MDL	5.33	PQL	mg/Kg	J	Z
STRONTIUM	26.6		0.0661	MDL	0.533	PQL	mg/Kg	J	E
TIN	2.19	J	1.07	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-291-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:10:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.01	J	0.886	MDL	5.27	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-291-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
STRONTIUM	50.6		0.0654	MDL	0.527	PQL	mg/Kg	J	E
TIN	1.38	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-294-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:47:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	0.978	J	0.885	MDL	5.27	PQL	mg/Kg	J	Z

Sample ID: SL-294-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.83	J	0.937	MDL	5.27	PQL	mg/Kg	J	Z
STRONTIUM	30.9		0.0653	MDL	0.527	PQL	mg/Kg	J	E
TIN	2.03	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-306-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:27:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.74	J	0.891	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-306-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.31	J	0.944	MDL	5.30	PQL	mg/Kg	J	Z
STRONTIUM	28.1		0.0657	MDL	0.530	PQL	mg/Kg	J	E
TIN	2.13	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

Sample ID: SL-307-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:15:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.50	J	0.884	MDL	5.26	PQL	mg/Kg	J	Z

Sample ID: SL-307-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.20	J	0.936	MDL	5.26	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS
Method:	6010B
Matrix:	SO

Sample ID: SL-307-SA5B-SS-0.0-0.5 Collected: 12/8/2010 2:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
STRONTIUM	34.9		0.0652	MDL	0.526	PQL	mg/Kg	J	E
TIN	1.76	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Method Category:	METALS
Method:	6020
Matrix:	SO

Sample ID: DUP01-SA5B-QC-120810 Collected: 12/8/2010 3:32:00 Analysis Type: REA Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.176		0.0393	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: DUP01-SA5B-QC-120810 Collected: 12/8/2010 3:32:00 Analysis Type: REA2 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.188		0.0327	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: DUP01-SA5B-QC-120810 Collected: 12/8/2010 3:32:00 Analysis Type: REA3 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.199	J	0.0436	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: DUP01-SA5B-QC-120810 Collected: 12/8/2010 3:32:00 Analysis Type: REA4 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.81		0.0545	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: DUP01-SA5B-QC-120810 Collected: 12/8/2010 3:32:00 Analysis Type: REA5 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	115		0.118	MDL	0.436	PQL	mg/Kg	J	E, A

Sample ID: DUP01-SA5B-QC-120810 Collected: 12/8/2010 3:32:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.271		0.0654	MDL	0.218	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP01-SA5B-QC-120810

Collected: 12/8/2010 3:32:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	32.2		0.131	MDL	0.436	PQL	mg/Kg	J	Q, A
COBALT	6.85		0.0218	MDL	0.109	PQL	mg/Kg	J	E
LEAD	6.54		0.0113	MDL	0.218	PQL	mg/Kg	J	Q, E, A
NICKEL	17.4		0.109	MDL	0.436	PQL	mg/Kg	J	Q
SILVER	0.0287	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q
VANADIUM	42.4		0.0240	MDL	0.109	PQL	mg/Kg	J	Q
ZINC	90.8		0.611	MDL	3.27	PQL	mg/Kg	J	Q, E

Sample ID: DUP02-SA5B-QC-120910

Collected: 12/9/2010 12:50:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.112		0.0379	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: DUP02-SA5B-QC-120910

Collected: 12/9/2010 12:50:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.200	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z, FD

Sample ID: DUP02-SA5B-QC-120910

Collected: 12/9/2010 12:50:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.43		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: DUP02-SA5B-QC-120910

Collected: 12/9/2010 12:50:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	67.5		0.114	MDL	0.421	PQL	mg/Kg	J	E, A

Sample ID: DUP02-SA5B-QC-120910

Collected: 12/9/2010 12:50:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.157	J	0.0632	MDL	0.211	PQL	mg/Kg	UJ	Q, FD, B
CHROMIUM	23.4		0.126	MDL	0.421	PQL	mg/Kg	J	Q, A
COBALT	4.31		0.0211	MDL	0.105	PQL	mg/Kg	J	E
LEAD	3.31		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS
Method:	6020
Matrix:	SO

Sample ID: DUP02-SA5B-QC-120910

Collected: 12/9/2010 12:50:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	10.8		0.105	MDL	0.421	PQL	mg/Kg	J	Q
SILVER	0.0219	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.131		0.0316	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	31.0		0.0232	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	44.2		0.590	MDL	3.16	PQL	mg/Kg	J	Q, E

Sample ID: SL-001-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:53:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0885	J	0.0372	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-001-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:53:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.219	J	0.0413	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:53:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.840		0.0516	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-001-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:53:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	102		0.112	MDL	0.413	PQL	mg/Kg	J	E, A

Sample ID: SL-001-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:53:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.204	J	0.0620	MDL	0.207	PQL	mg/Kg	UJ	Q, B
CHROMIUM	22.6		0.124	MDL	0.413	PQL	mg/Kg	J	Q, A
COBALT	5.84		0.0207	MDL	0.103	PQL	mg/Kg	J	E
LEAD	5.68		0.0107	MDL	0.207	PQL	mg/Kg	J	Q, E, A
NICKEL	12.1		0.103	MDL	0.413	PQL	mg/Kg	J	Q
SILVER	0.0170	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-001-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:53:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.338		0.0310	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	40.6		0.0227	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	81.4		0.578	MDL	3.10	PQL	mg/Kg	J	Q, E

Sample ID: SL-002-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:10:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0734	J	0.0372	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-002-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:10:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.102	J	0.0414	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:10:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.483		0.0517	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-002-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:10:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.4		0.112	MDL	0.414	PQL	mg/Kg	J	E, A

Sample ID: SL-002-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.176	J	0.0621	MDL	0.207	PQL	mg/Kg	UJ	Q, B
CHROMIUM	17.2		0.124	MDL	0.414	PQL	mg/Kg	J	Q, A
COBALT	4.85		0.0207	MDL	0.103	PQL	mg/Kg	J	E
LEAD	5.16		0.0108	MDL	0.207	PQL	mg/Kg	J	Q, E, A
NICKEL	9.90		0.103	MDL	0.414	PQL	mg/Kg	J	Q
SILVER	0.0280	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.285		0.0310	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	30.5		0.0228	MDL	0.103	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-002-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	70.0		0.579	MDL	3.10	PQL	mg/Kg	J	Q, E

Sample ID: SL-006-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:45:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.159		0.0379	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:45:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.212	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:45:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.82		0.0526	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:45:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	104		0.114	MDL	0.421	PQL	mg/Kg	J	E, A

Sample ID: SL-006-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.333		0.0631	MDL	0.210	PQL	mg/Kg	UJ	Q, B
CHROMIUM	33.0		0.126	MDL	0.421	PQL	mg/Kg	J	Q, A
COBALT	5.68		0.0210	MDL	0.105	PQL	mg/Kg	J	E
LEAD	5.04		0.0109	MDL	0.210	PQL	mg/Kg	J	Q, E, A
NICKEL	15.1		0.105	MDL	0.421	PQL	mg/Kg	J	Q
SILVER	0.0663	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.177		0.0316	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	37.6		0.0231	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	55.6		0.589	MDL	3.16	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-007-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:50:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.518		0.0625	MDL	0.208	PQL	mg/Kg	J	Q
CADMIUM	0.210		0.0375	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-007-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:50:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.399	J	0.0417	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:50:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.50		0.0521	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-007-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:50:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	116		0.113	MDL	0.417	PQL	mg/Kg	J	E, A

Sample ID: SL-007-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:50:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	26.9		0.125	MDL	0.417	PQL	mg/Kg	J	Q, A
COBALT	6.37		0.0208	MDL	0.104	PQL	mg/Kg	J	E
LEAD	8.74		0.0108	MDL	0.208	PQL	mg/Kg	J	Q, E, A
NICKEL	15.4		0.104	MDL	0.417	PQL	mg/Kg	J	Q
SILVER	0.0704	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.301		0.0313	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	41.5		0.0229	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	80.9		0.583	MDL	3.13	PQL	mg/Kg	J	Q, E

Sample ID: SL-010-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:35:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.250	J	0.0437	MDL	0.437	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-010-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:35:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.22		0.0546	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:35:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	130		0.118	MDL	0.437	PQL	mg/Kg	J	E, A

Sample ID: SL-010-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.264		0.0655	MDL	0.218	PQL	mg/Kg	UJ	Q, B
CADMIUM	1.58		0.0393	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	21.9		0.131	MDL	0.437	PQL	mg/Kg	J	Q, A
COBALT	5.58		0.0218	MDL	0.109	PQL	mg/Kg	J	E
LEAD	5.60		0.0114	MDL	0.218	PQL	mg/Kg	J	Q, E, A
NICKEL	11.3		0.109	MDL	0.437	PQL	mg/Kg	J	Q
SILVER	0.0609	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.251		0.0327	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	34.4		0.0240	MDL	0.109	PQL	mg/Kg	J	Q
ZINC	71.6		0.611	MDL	3.27	PQL	mg/Kg	J	Q, E

Sample ID: SL-011-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:05:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.164		0.0389	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-011-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:05:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.186	J	0.0432	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:05:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.33		0.0540	MDL	0.108	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-011-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:05:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	95.7		0.117	MDL	0.432	PQL	mg/Kg	J	E, A

Sample ID: SL-011-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:05:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.97		0.0649	MDL	0.216	PQL	mg/Kg	J	Q
CHROMIUM	21.3		0.130	MDL	0.432	PQL	mg/Kg	J	Q, A
COBALT	5.66		0.0216	MDL	0.108	PQL	mg/Kg	J	E
LEAD	6.24		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, E, A
NICKEL	11.8		0.108	MDL	0.432	PQL	mg/Kg	J	Q
SILVER	0.0409	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.273		0.0324	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	38.1		0.0238	MDL	0.108	PQL	mg/Kg	J	Q
ZINC	74.4		0.605	MDL	3.24	PQL	mg/Kg	J	Q, E

Sample ID: SL-012-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:47:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.149		0.0390	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-012-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:47:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.403	J	0.0433	MDL	0.433	PQL	mg/Kg	J	Z, FD

Sample ID: SL-012-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:47:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.74		0.0541	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-012-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:47:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	73.3		0.117	MDL	0.433	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-012-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:47:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.294		0.0649	MDL	0.216	PQL	mg/Kg	UJ	Q, FD, B
CHROMIUM	30.6		0.130	MDL	0.433	PQL	mg/Kg	J	Q, A
COBALT	5.03		0.0216	MDL	0.108	PQL	mg/Kg	J	E
LEAD	3.82		0.0113	MDL	0.216	PQL	mg/Kg	J	Q, E, A
NICKEL	14.2		0.108	MDL	0.433	PQL	mg/Kg	J	Q
SILVER	0.0319	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.173		0.0325	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	36.5		0.0238	MDL	0.108	PQL	mg/Kg	J	Q
ZINC	38.7		0.606	MDL	3.25	PQL	mg/Kg	J	Q, E

Sample ID: SL-013-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:07:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.200		0.0387	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-013-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:07:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.275	J	0.0430	MDL	0.430	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:07:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.01		0.0537	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-013-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:07:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	81.5		0.116	MDL	0.430	PQL	mg/Kg	J	E, A

Sample ID: SL-013-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:07:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.140	J	0.0644	MDL	0.215	PQL	mg/Kg	UJ	Q, B
CHROMIUM	17.9		0.129	MDL	0.430	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-013-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:07:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	4.50		0.0215	MDL	0.107	PQL	mg/Kg	J	E
LEAD	4.71		0.0112	MDL	0.215	PQL	mg/Kg	J	Q, E, A
NICKEL	10.5		0.107	MDL	0.430	PQL	mg/Kg	J	Q
SILVER	0.0459	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.206		0.0322	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	29.4		0.0236	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	64.9		0.601	MDL	3.22	PQL	mg/Kg	J	Q, E

Sample ID: SL-014-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:15:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.169		0.0385	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-014-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:15:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.263	J	0.0427	MDL	0.427	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:15:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.72		0.0534	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-014-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:15:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.115	MDL	0.427	PQL	mg/Kg	J	E, A

Sample ID: SL-014-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.294		0.0641	MDL	0.214	PQL	mg/Kg	UJ	Q, B
CHROMIUM	37.6		0.128	MDL	0.427	PQL	mg/Kg	J	Q, A
COBALT	7.16		0.0214	MDL	0.107	PQL	mg/Kg	J	E
LEAD	5.26		0.0111	MDL	0.214	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-014-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	19.3		0.107	MDL	0.427	PQL	mg/Kg	J	Q
SILVER	0.0179	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.238		0.0321	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	47.4		0.0235	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	55.1		0.598	MDL	3.21	PQL	mg/Kg	J	Q, E

Sample ID: SL-018-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:45:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.180		0.0385	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-018-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:45:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.218	J	0.0427	MDL	0.427	PQL	mg/Kg	J	Z

Sample ID: SL-018-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:45:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.25		0.0534	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-018-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:45:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	118		0.115	MDL	0.427	PQL	mg/Kg	J	E, A

Sample ID: SL-018-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.342		0.0641	MDL	0.214	PQL	mg/Kg	UJ	Q, B
CHROMIUM	38.9		0.128	MDL	0.427	PQL	mg/Kg	J	Q, A
COBALT	8.09		0.0214	MDL	0.107	PQL	mg/Kg	J	E
LEAD	6.98		0.0111	MDL	0.214	PQL	mg/Kg	J	Q, E, A
NICKEL	20.2		0.107	MDL	0.427	PQL	mg/Kg	J	Q
SILVER	0.0354	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-018-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.230		0.0320	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	49.7		0.0235	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	62.4		0.598	MDL	3.20	PQL	mg/Kg	J	Q, E

Sample ID: SL-020-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:40:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.182		0.0382	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-020-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:40:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.167		0.0318	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-020-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:40:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.322	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:40:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.49		0.0530	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-020-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:40:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.114	MDL	0.424	PQL	mg/Kg	J	E, A

Sample ID: SL-020-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.347		0.0636	MDL	0.212	PQL	mg/Kg	UJ	Q, B
CHROMIUM	29.3		0.127	MDL	0.424	PQL	mg/Kg	J	Q, A
COBALT	6.43		0.0212	MDL	0.106	PQL	mg/Kg	J	E
LEAD	5.28		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-020-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	15.3		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.0247	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
VANADIUM	40.5		0.0233	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	60.4		0.594	MDL	3.18	PQL	mg/Kg	J	Q, E

Sample ID: SL-022-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:45:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.139		0.0390	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-022-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:45:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.161	J	0.0433	MDL	0.433	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:45:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.664		0.0542	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-022-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:45:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	110		0.117	MDL	0.433	PQL	mg/Kg	J	E, A

Sample ID: SL-022-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.242		0.0650	MDL	0.217	PQL	mg/Kg	UJ	Q, B
CHROMIUM	23.4		0.130	MDL	0.433	PQL	mg/Kg	J	Q, A
COBALT	6.69		0.0217	MDL	0.108	PQL	mg/Kg	J	E
LEAD	8.15		0.0113	MDL	0.217	PQL	mg/Kg	J	Q, E, A
NICKEL	12.8		0.108	MDL	0.433	PQL	mg/Kg	J	Q
SILVER	0.0183	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.351		0.0325	MDL	0.108	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-022-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	43.4		0.0238	MDL	0.108	PQL	mg/Kg	J	Q
ZINC	84.2		0.607	MDL	3.25	PQL	mg/Kg	J	Q, E

Sample ID: SL-031-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:15:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.146		0.0384	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-031-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:15:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.183	J	0.0427	MDL	0.427	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:15:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.06		0.0533	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-031-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:15:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.115	MDL	0.427	PQL	mg/Kg	J	E, A

Sample ID: SL-031-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.193	J	0.0640	MDL	0.213	PQL	mg/Kg	UJ	Q, B
CHROMIUM	28.7		0.128	MDL	0.427	PQL	mg/Kg	J	Q, A
COBALT	9.15		0.0213	MDL	0.107	PQL	mg/Kg	J	E
LEAD	8.73		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, E, A
NICKEL	15.7		0.107	MDL	0.427	PQL	mg/Kg	J	Q
SILVER	0.0351	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.339		0.0320	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	50.3		0.0235	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	80.4		0.597	MDL	3.20	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-291-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:10:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.255		0.0376	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-291-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:10:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.21		0.0522	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-291-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:10:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	130		0.113	MDL	0.418	PQL	mg/Kg	J	E, A

Sample ID: SL-291-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.376		0.0626	MDL	0.209	PQL	mg/Kg	UJ	Q, B
CHROMIUM	27.5		0.125	MDL	0.418	PQL	mg/Kg	J	Q, A
COBALT	6.51		0.0209	MDL	0.104	PQL	mg/Kg	J	E
LEAD	10.1		0.0109	MDL	0.209	PQL	mg/Kg	J	Q, E, A
NICKEL	15.8		0.104	MDL	0.418	PQL	mg/Kg	J	Q
SILVER	0.141		0.0125	MDL	0.104	PQL	mg/Kg	J	Q
THALLIUM	0.210		0.0313	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	43.7		0.0230	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	116		0.585	MDL	3.13	PQL	mg/Kg	J	Q, E

Sample ID: SL-294-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:47:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.147		0.0383	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-294-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:47:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0425	MDL	0.425	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-294-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:47:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.12		0.0532	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-294-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:47:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.115	MDL	0.425	PQL	mg/Kg	J	E, A

Sample ID: SL-294-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:47:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.298		0.0638	MDL	0.213	PQL	mg/Kg	UJ	Q, B
CHROMIUM	30.1		0.128	MDL	0.425	PQL	mg/Kg	J	Q, A
COBALT	7.18		0.0213	MDL	0.106	PQL	mg/Kg	J	E
LEAD	7.23		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, E, A
NICKEL	16.4		0.106	MDL	0.425	PQL	mg/Kg	J	Q
SILVER	0.0263	J	0.0128	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.285		0.0319	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	46.3		0.0234	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	74.9		0.595	MDL	3.19	PQL	mg/Kg	J	Q, E

Sample ID: SL-306-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:27:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.127		0.0397	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-306-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:27:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.204	J	0.0441	MDL	0.441	PQL	mg/Kg	J	Z

Sample ID: SL-306-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:27:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.951		0.0551	MDL	0.110	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-306-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:27:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	93.8		0.119	MDL	0.441	PQL	mg/Kg	J	E, A

Sample ID: SL-306-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:27:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	2.07		0.0662	MDL	0.221	PQL	mg/Kg	J	Q
CHROMIUM	23.0		0.132	MDL	0.441	PQL	mg/Kg	J	Q, A
COBALT	6.13		0.0221	MDL	0.110	PQL	mg/Kg	J	E
LEAD	6.01		0.0115	MDL	0.221	PQL	mg/Kg	J	Q, E, A
NICKEL	12.3		0.110	MDL	0.441	PQL	mg/Kg	J	Q
SILVER	0.0269	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.294		0.0331	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	40.8		0.0243	MDL	0.110	PQL	mg/Kg	J	Q
ZINC	78.7		0.617	MDL	3.31	PQL	mg/Kg	J	Q, E

Sample ID: SL-307-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:15:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.167		0.0382	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-307-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:15:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.176	J	0.0425	MDL	0.425	PQL	mg/Kg	J	Z

Sample ID: SL-307-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:15:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.70		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-307-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:15:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.115	MDL	0.425	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-307-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.187	J	0.0637	MDL	0.212	PQL	mg/Kg	UJ	Q, B
CHROMIUM	25.3		0.127	MDL	0.425	PQL	mg/Kg	J	Q, A
COBALT	6.07		0.0212	MDL	0.106	PQL	mg/Kg	J	E
LEAD	5.70		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, E, A
NICKEL	15.3		0.106	MDL	0.425	PQL	mg/Kg	J	Q
SILVER	0.0263	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.231		0.0319	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	38.5		0.0234	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	52.5		0.595	MDL	3.19	PQL	mg/Kg	J	Q, E

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-007-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.30	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-291-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-306-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: DUP01-SA5B-QC-120810

Collected: 12/8/2010 3:32:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0068	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0070	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0063	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0148	J	0.0031	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0378	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0043	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-291-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0114	J	0.0029	MDL	0.0996	PQL	mg/Kg	J	Z

Sample ID: SL-307-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0143	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Method Category: SVOA

Method: 1625C

Matrix: SO

Sample ID: SL-011-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	21.3	J	18.2	MDL	36.4	PQL	ng/Kg	J	Z

Sample ID: SL-020-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	27.6	J	18.2	MDL	36.4	PQL	ng/Kg	J	Z

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: SL-022-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:45:00

Analysis Type: REA2

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	8.3	J	4.4	MDL	13	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: DUP01-SA5B-QC-120810

Collected: 12/8/2010 3:32:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN ALDEHYDE	0.14	J	0.072	MDL	0.37	PQL	ug/Kg	J	Z

Sample ID: DUP02-SA5B-QC-120910

Collected: 12/9/2010 12:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.084	J	0.064	MDL	0.18	PQL	ug/Kg	J	Z, FD
ENDRIN KETONE	0.090	U	0.090	MDL	0.37	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8081A	Matrix:	SO

Sample ID: SL-002-SA5B-SS-0.0-0.5 Collected: 12/9/2010 2:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.098	J	0.063	MDL	0.18	PQL	ug/Kg	J	Z
MIREX	0.20	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5B-SS-0.0-0.5 Collected: 12/9/2010 9:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR	0.55	J	0.33	MDL	0.91	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA5B-SS-0.0-0.5 Collected: 12/9/2010 12:47:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.066	U	0.066	MDL	0.18	PQL	ug/Kg	UJ	FD
ENDRIN KETONE	0.17	J	0.072	MDL	0.37	PQL	ug/Kg	J	Z, FD

Sample ID: SL-018-SA5B-SS-0.0-0.5 Collected: 12/9/2010 8:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.13	J	0.066	MDL	0.18	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	0.10	J	0.073	MDL	0.37	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA5B-SS-0.0-0.5 Collected: 12/9/2010 8:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.081	J	0.066	MDL	0.18	PQL	ug/Kg	J	Z

Sample ID: SL-294-SA5B-SS-0.0-0.5 Collected: 12/8/2010 2:47:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR EPOXIDE	0.040	J	0.037	MDL	0.18	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: DUP01-SA5B-QC-120810

Collected: 12/8/2010 3:32:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.1	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.80	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.7	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z, L

Sample ID: DUP02-SA5B-QC-120910

Collected: 12/9/2010 12:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.65	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	4.3		1.1	MDL	3.5	PQL	ug/Kg	J	L, FD

Sample ID: SL-001-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:53:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SL-002-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.74	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SL-006-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.44	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-006-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-007-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.53	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SL-010-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-011-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:05:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	5.5	U	5.5	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.5	U	5.5	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	5.5	U	5.5	MDL	18	PQL	ug/Kg	UJ	L

Sample ID: SL-012-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:47:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	FD
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-013-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:07:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.0	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	1.7	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-014-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.47	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.3	J	1.1	MDL	3.7	PQL	ug/Kg	J	Z, L

Sample ID: SL-018-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.46	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z, S
AROCLOR 1260	0.52	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z, S
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.3	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z, S, L

Sample ID: SL-020-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.9		0.36	MDL	1.9	PQL	ug/Kg	J	S
AROCLOR 1260	0.62	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z, S
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-022-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.0	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	1.1	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	2.0	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z, L

Sample ID: SL-031-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.5	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	1.3	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	2.0	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z, L

Sample ID: SL-291-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	2.4	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, L

Sample ID: SL-294-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:47:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.80	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.6	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z, L

Sample ID: SL-306-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:27:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.7	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-306-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-307-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.50	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.82	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	62		1.1	MDL	3.6	PQL	ug/Kg	J	L

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: DUP01-SA5B-QC-120810

Collected: 12/8/2010 3:32:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPA	260	J	83	MDL	270	PQL	ug/Kg	J	Z

Sample ID: DUP02-SA5B-QC-120910

Collected: 12/9/2010 12:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.8	J	0.67	MDL	1.8	PQL	ug/Kg	J	FD

Sample ID: SL-001-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPP	170	J	80	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPP	250	J	83	MDL	280	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-011-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	1.1	J	0.87	MDL	2.6	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.3	U	1.3	MDL	1.9	PQL	ug/Kg	UJ	FD

Sample ID: SL-014-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.7	J	0.69	MDL	1.9	PQL	ug/Kg	J	Z
MCPA	230	J	84	MDL	280	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPP	230	J	82	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPA	260	J	83	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-031-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPA	250	J	83	MDL	270	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-002-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	R	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-002-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	R	S
1,3-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	R	S
1,4-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	R	S
2,4,5-TRICHLOROPHENOL	35	U	35	MDL	180	PQL	ug/Kg	R	S
2,4,6-TRICHLOROPHENOL	35	U	35	MDL	180	PQL	ug/Kg	R	S
2,4-DICHLOROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	R	S
2,4-DIMETHYLPHENOL	35	U	35	MDL	180	PQL	ug/Kg	R	S
2,4-DINITROPHENOL	700	U	700	MDL	2100	PQL	ug/Kg	R	S
2,4-DINITROTOLUENE	35	U	35	MDL	180	PQL	ug/Kg	R	S
2,6-DINITROTOLUENE	18	U	18	MDL	180	PQL	ug/Kg	R	S
2-CHLORONAPHTHALENE	18	U	18	MDL	180	PQL	ug/Kg	R	S
2-CHLOROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	R	S
2-METHYLPHENOL	35	U	35	MDL	180	PQL	ug/Kg	R	S
2-NITROANILINE	18	U	18	MDL	180	PQL	ug/Kg	R	S
2-NITROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	R	S
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	R	S
3-NITROANILINE	35	U	35	MDL	180	PQL	ug/Kg	R	S
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	R	S
4-BROMOPHENYL-PHENYLETHER	18	U	18	MDL	180	PQL	ug/Kg	R	S
4-CHLORO-3-METHYLPHENOL	35	U	35	MDL	180	PQL	ug/Kg	R	S
4-CHLOROANILINE	70	U	70	MDL	180	PQL	ug/Kg	R	S
4-CHLOROPHENYL-PHENYLETHER	35	U	35	MDL	180	PQL	ug/Kg	R	S
4-METHYLPHENOL	35	U	35	MDL	180	PQL	ug/Kg	R	S
4-NITROANILINE	70	U	70	MDL	180	PQL	ug/Kg	R	S
4-NITROPHENOL	180	U	180	MDL	530	PQL	ug/Kg	R	S
ANILINE	180	U	180	MDL	530	PQL	ug/Kg	R	S
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	R	S
BENZO(A)ANTHRACENE	49	J	18	MDL	180	PQL	ug/Kg	J	Z, S
BENZO(A)PYRENE	39	J	18	MDL	180	PQL	ug/Kg	J	Z, S
BENZO(B)FLUORANTHENE	53	J	18	MDL	180	PQL	ug/Kg	J	Z, S
BENZO(G,H,I)PERYLENE	20	J	18	MDL	180	PQL	ug/Kg	J	Z, S
BENZO(K)FLUORANTHENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z, S
BENZOIC ACID	180	U	180	MDL	530	PQL	ug/Kg	R	S
BENZYL ALCOHOL	180	U	180	MDL	530	PQL	ug/Kg	R	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-002-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	R	S
BIS(2-CHLOROETHYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	R	S
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	R	S
BIS(2-ETHYLHEXYL)PHTHALATE	18	U	18	MDL	350	PQL	ug/Kg	R	S
CARBAZOLE	18	U	18	MDL	180	PQL	ug/Kg	R	S
CHRYSENE	52	J	18	MDL	180	PQL	ug/Kg	J	Z, S
DIBENZOFURAN	18	U	18	MDL	180	PQL	ug/Kg	R	S
FLUORANTHENE	46	J	18	MDL	180	PQL	ug/Kg	J	Z, S
HEXACHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	R	S
HEXACHLOROBUTADIENE	70	U	70	MDL	180	PQL	ug/Kg	R	S
HEXACHLOROCYCLOPENTADIENE	180	U	180	MDL	530	PQL	ug/Kg	R	S
HEXACHLOROETHANE	18	U	18	MDL	180	PQL	ug/Kg	R	S
INDENO(1,2,3-CD)PYRENE	26	J	18	MDL	180	PQL	ug/Kg	J	Z, S
ISOPHORONE	18	U	18	MDL	180	PQL	ug/Kg	R	S
NITROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	R	S
N-NITROSO-DI-N-PROPYLAMINE	18	U	18	MDL	180	PQL	ug/Kg	R	S
N-NITROSODIPHENYLAMINE	18	U	18	MDL	180	PQL	ug/Kg	R	S
PENTACHLOROPHENOL	180	U	180	MDL	530	PQL	ug/Kg	R	S
PHENOL	18	U	18	MDL	180	PQL	ug/Kg	R	S
PYRENE	55	J	18	MDL	180	PQL	ug/Kg	J	Z, S

Sample ID: SL-007-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	20	J	18	MDL	180	PQL	ug/Kg	J	Z
CHRYSENE	21	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	19	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-014-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	20	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	27	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-291-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	100	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	57	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	50	J	18	MDL	180	PQL	ug/Kg	J	Z
CHRYSENE	89	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	53	J	18	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	25	J	18	MDL	180	PQL	ug/Kg	J	Z
PHENANTHRENE	29	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	57	J	18	MDL	180	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: DUP01-SA5B-QC-120810

Collected: 12/8/2010 3:32:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.2	J	6.5	MDL	20	PQL	ug/Kg	U	B
FLUORANTHENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.81	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: DUP02-SA5B-QC-120910

Collected: 12/9/2010 12:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.42	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	1.9		0.72	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	2.1		0.72	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	3.6		0.72	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	1.9		0.72	MDL	1.8	PQL	ug/Kg	J	FD
BIS(2-ETHYLHEXYL)PHthalate	8.9	J	6.4	MDL	19	PQL	ug/Kg	UJ	B, FD
CHRYSENE	2.3		0.36	MDL	1.8	PQL	ug/Kg	J	FD
Di-n-butylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	UJ	FD
FLUORANTHENE	2.8		0.72	MDL	1.8	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	0.82	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	0.81	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, FD
PYRENE	2.4		0.72	MDL	1.8	PQL	ug/Kg	J	FD

Sample ID: SL-001-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:53:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	13	J	6.4	MDL	19	PQL	ug/Kg	U	B

Sample ID: SL-002-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.55	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	0.87	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.89	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.3	J	6.3	MDL	19	PQL	ug/Kg	J	Z
FLUORENE	0.84	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.0	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-006-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	17	J	6.5	MDL	20	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-007-SA5B-SS-0.0-0.5

Collected: 12/9/2010 2:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.73	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	12	J	6.4	MDL	19	PQL	ug/Kg	U	B
CHRYSENE	0.81	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.83	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.81	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	15	J	6.6	MDL	20	PQL	ug/Kg	U	B
CHRYSENE	0.43	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.3	J	6.6	MDL	20	PQL	ug/Kg	J	Z
PHENANTHRENE	0.87	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:47:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(A)ANTHRACENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(A)PYRENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BIS(2-ETHYLHEXYL)PHthalate	88		6.6	MDL	20	PQL	ug/Kg	J	Q, FD
CHRYSENE	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	FD
Di-n-butylphthalate	7.0	J	6.6	MDL	20	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-012-SA5B-SS-0.0-0.5

Collected: 12/9/2010 12:47:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
INDENO(1,2,3-CD)PYRENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
N-NITROSODIMETHYLAMINE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	Q
PHENANTHRENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
PYRENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD

Sample ID: SL-013-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:07:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.76	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.66	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	30		6.5	MDL	20	PQL	ug/Kg	U	B
FLUORENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-014-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.78	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.4	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.91	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.3	J	6.7	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.94	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-018-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.84	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.85	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.80	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	10	J	6.6	MDL	20	PQL	ug/Kg	U	B
CHRYSENE	0.88	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-018-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	10	J	6.6	MDL	20	PQL	ug/Kg	U	B
CHRYSENE	1.0	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.6	J	6.6	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	0.82	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.84	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	9.1	J	6.6	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.6	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.82	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-031-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	0.73	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.6	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-291-SA5B-SS-0.0-0.5

Collected: 12/9/2010 1:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.1	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	17	J	6.4	MDL	19	PQL	ug/Kg	U	B
Butylbenzylphthalate	6.7	J	6.4	MDL	19	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	12	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.5	J	6.4	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-294-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:47:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	6.7	J	6.5	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-306-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:27:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.56	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.7	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
Dimethylphthalate	7.7	J	6.6	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.0	J	6.6	MDL	20	PQL	ug/Kg	J	Z
PHENANTHRENE	1.0	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-307-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	10	J	6.6	MDL	20	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.93	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A

Matrix: SO

Sample ID: SL-011-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	1200	J	660	MDL	1600	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	690	J	660	MDL	1600	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	3600		660	MDL	1600	PQL	ug/Kg	J	Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-011-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:05:00

Analysis Type: RES

Dilution: 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.57	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.10	J	0.08	MDL	4.2	PQL	ug/Kg	U	B

Sample ID: SL-014-SA5B-SS-0.0-0.5

Collected: 12/9/2010 9:15:00

Analysis Type: RES

Dilution: 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.53	J	0.24	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-018-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:45:00

Analysis Type: RES

Dilution: 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.44	J	0.23	MDL	3.8	PQL	ug/Kg	U	B

Sample ID: SL-020-SA5B-SS-0.0-0.5

Collected: 12/9/2010 8:40:00

Analysis Type: RES

Dilution: 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.57	J	0.25	MDL	4.2	PQL	ug/Kg	U	B

Sample ID: SL-022-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:45:00

Analysis Type: RES

Dilution: 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.1	J	0.23	MDL	3.9	PQL	ug/Kg	UJ	Q, B
TOLUENE	0.13	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE032

Method Blank Outlier Report

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34808DB220046	12/17/2010 12:46:00 AM	PHOSPHORUS TIN	1.69 mg/Kg 1.78 mg/Kg	DUP01-SA5B-QC-120810 DUP02-SA5B-QC-120910 SL-001-SA5B-SS-0.0-0.5 SL-002-SA5B-SS-0.0-0.5 SL-006-SA5B-SS-0.0-0.5 SL-007-SA5B-SS-0.0-0.5 SL-010-SA5B-SS-0.0-0.5 SL-011-SA5B-SS-0.0-0.5 SL-012-SA5B-SS-0.0-0.5 SL-013-SA5B-SS-0.0-0.5 SL-014-SA5B-SS-0.0-0.5 SL-018-SA5B-SS-0.0-0.5 SL-020-SA5B-SS-0.0-0.5 SL-022-SA5B-SS-0.0-0.5 SL-031-SA5B-SS-0.0-0.5 SL-291-SA5B-SS-0.0-0.5 SL-294-SA5B-SS-0.0-0.5 SL-306-SA5B-SS-0.0-0.5 SL-307-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA5B-QC-120810(RES)	TIN	1.73 mg/Kg	1.73U mg/Kg
DUP02-SA5B-QC-120910(RES)	TIN	1.15 mg/Kg	1.15U mg/Kg
SL-001-SA5B-SS-0.0-0.5(RES)	TIN	1.90 mg/Kg	1.90U mg/Kg
SL-002-SA5B-SS-0.0-0.5(RES)	TIN	1.90 mg/Kg	1.90U mg/Kg
SL-006-SA5B-SS-0.0-0.5(RES)	TIN	1.52 mg/Kg	1.52U mg/Kg
SL-007-SA5B-SS-0.0-0.5(RES)	TIN	1.79 mg/Kg	1.79U mg/Kg
SL-010-SA5B-SS-0.0-0.5(RES)	TIN	1.90 mg/Kg	1.90U mg/Kg
SL-011-SA5B-SS-0.0-0.5(RES)	TIN	4.36 mg/Kg	4.36U mg/Kg
SL-012-SA5B-SS-0.0-0.5(RES)	TIN	1.86 mg/Kg	1.86U mg/Kg
SL-013-SA5B-SS-0.0-0.5(RES)	TIN	1.81 mg/Kg	1.81U mg/Kg
SL-014-SA5B-SS-0.0-0.5(RES)	TIN	1.75 mg/Kg	1.75U mg/Kg
SL-018-SA5B-SS-0.0-0.5(RES)	TIN	1.62 mg/Kg	1.62U mg/Kg
SL-020-SA5B-SS-0.0-0.5(RES)	TIN	1.91 mg/Kg	1.91U mg/Kg
SL-022-SA5B-SS-0.0-0.5(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-031-SA5B-SS-0.0-0.5(RES)	TIN	2.19 mg/Kg	2.19U mg/Kg
SL-291-SA5B-SS-0.0-0.5(RES)	TIN	1.38 mg/Kg	1.38U mg/Kg
SL-294-SA5B-SS-0.0-0.5(RES)	TIN	2.03 mg/Kg	2.03U mg/Kg
SL-306-SA5B-SS-0.0-0.5(RES)	TIN	2.13 mg/Kg	2.13U mg/Kg
SL-307-SA5B-SS-0.0-0.5(RES)	TIN	1.76 mg/Kg	1.76U mg/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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ADR version 1.4.0.111

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Method Blank Outlier Report

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB15B210928A	12/14/2010 9:28:00 AM	METHYLENE CHLORIDE TOLUENE	1.0 ug/Kg 0.11 ug/Kg	SL-011-SA5B-SS-0.0-0.5 SL-014-SA5B-SS-0.0-0.5 SL-018-SA5B-SS-0.0-0.5 SL-020-SA5B-SS-0.0-0.5 SL-022-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-011-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	0.57 ug/Kg	4.2U ug/Kg
SL-011-SA5B-SS-0.0-0.5(RES)	TOLUENE	0.10 ug/Kg	4.2U ug/Kg
SL-014-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	0.53 ug/Kg	4.1U ug/Kg
SL-018-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	0.44 ug/Kg	3.8U ug/Kg
SL-020-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	0.57 ug/Kg	4.2U ug/Kg
SL-022-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	3.9U ug/Kg
SL-022-SA5B-SS-0.0-0.5(RES)	TOLUENE	0.13 ug/Kg	3.9U ug/Kg

Method: 8270C Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLD34B260818	12/22/2010 8:18:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate	29 ug/Kg 28 ug/Kg	DUP01-SA5B-QC-120810 DUP02-SA5B-QC-120910 SL-001-SA5B-SS-0.0-0.5 SL-002-SA5B-SS-0.0-0.5 SL-006-SA5B-SS-0.0-0.5 SL-007-SA5B-SS-0.0-0.5 SL-010-SA5B-SS-0.0-0.5 SL-011-SA5B-SS-0.0-0.5 SL-012-SA5B-SS-0.0-0.5 SL-013-SA5B-SS-0.0-0.5 SL-014-SA5B-SS-0.0-0.5 SL-018-SA5B-SS-0.0-0.5 SL-020-SA5B-SS-0.0-0.5 SL-022-SA5B-SS-0.0-0.5 SL-031-SA5B-SS-0.0-0.5 SL-291-SA5B-SS-0.0-0.5 SL-294-SA5B-SS-0.0-0.5 SL-306-SA5B-SS-0.0-0.5 SL-307-SA5B-SS-0.0-0.5

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLI34B260857	12/16/2010 8:57:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE	6.1 ug/Kg	DUP01-SA5B-QC-120810 DUP02-SA5B-QC-120910 SL-001-SA5B-SS-0.0-0.5 SL-002-SA5B-SS-0.0-0.5 SL-006-SA5B-SS-0.0-0.5 SL-007-SA5B-SS-0.0-0.5 SL-010-SA5B-SS-0.0-0.5 SL-011-SA5B-SS-0.0-0.5 SL-012-SA5B-SS-0.0-0.5 SL-013-SA5B-SS-0.0-0.5 SL-014-SA5B-SS-0.0-0.5 SL-018-SA5B-SS-0.0-0.5 SL-020-SA5B-SS-0.0-0.5 SL-022-SA5B-SS-0.0-0.5 SL-031-SA5B-SS-0.0-0.5 SL-291-SA5B-SS-0.0-0.5 SL-294-SA5B-SS-0.0-0.5 SL-306-SA5B-SS-0.0-0.5 SL-307-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA5B-QC-120810(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.2 ug/Kg	20U ug/Kg
DUP02-SA5B-QC-120910(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.9 ug/Kg	19U ug/Kg
SL-001-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	19U ug/Kg
SL-007-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	12 ug/Kg	19U ug/Kg
SL-010-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	15 ug/Kg	20U ug/Kg
SL-013-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	30 ug/Kg	30U ug/Kg
SL-018-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	10 ug/Kg	20U ug/Kg
SL-020-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	10 ug/Kg	20U ug/Kg
SL-291-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	17 ug/Kg	19U ug/Kg
SL-307-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	10 ug/Kg	20U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 8315A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-022-SA5B-SS-0.0-0.5MS SL-022-SA5B-SS-0.0-0.5MSD (SL-022-SA5B-SS-0.0-0.5)	FORMALDEHYDE	29	26	80.00-120.00	-	FORMALDEHYDE	J (all detects) UJ (all non-detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-012-SA5B-SS-0.0-0.5MSD (SL-012-SA5B-SS-0.0-0.5)	DINOSEB	-	-	1.00-44.00	44 (35.00)	DINOSEB	J(all detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-012-SA5B-SS-0.0-0.5MS SL-012-SA5B-SS-0.0-0.5MSD (SL-012-SA5B-SS-0.0-0.5)	4,4'-DDT HEPTACHLOR	249 167	- 142	10.00-176.00 13.00-126.00	75 (50.00) -	4,4'-DDT HEPTACHLOR	No Qual Analysis not reported
SL-012-SA5B-SS-0.0-0.5MSD (SL-012-SA5B-SS-0.0-0.5)	4,4'-DDT	-	-	10.00-176.00	67 (50.00)	4,4'-DDT	J(all detects)

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-012-SA5B-SS-0.0-0.5MS SL-012-SA5B-SS-0.0-0.5MSD (DUP01-SA5B-QC-120810 DUP02-SA5B-QC-120810 SL-001-SA5B-SS-0.0-0.5 SL-002-SA5B-SS-0.0-0.5 SL-006-SA5B-SS-0.0-0.5 SL-007-SA5B-SS-0.0-0.5 SL-010-SA5B-SS-0.0-0.5 SL-011-SA5B-SS-0.0-0.5 SL-012-SA5B-SS-0.0-0.5 SL-013-SA5B-SS-0.0-0.5 SL-014-SA5B-SS-0.0-0.5 SL-018-SA5B-SS-0.0-0.5 SL-020-SA5B-SS-0.0-0.5 SL-022-SA5B-SS-0.0-0.5 SL-031-SA5B-SS-0.0-0.5 SL-291-SA5B-SS-0.0-0.5 SL-294-SA5B-SS-0.0-0.5 SL-306-SA5B-SS-0.0-0.5 SL-307-SA5B-SS-0.0-0.5)	ALUMINUM CALCIUM IRON MAGNESIUM TITANIUM	1349 165 385 148 322	1604 249 1267 257 295	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM CALCIUM IRON MAGNESIUM TITANIUM	No Qual, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

7/5/2011 8:27:02 AM

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-012-SA5B-SS-0.0-0.5MS (DUP01-SA5B-QC-120810 DUP02-SA5B-QC-120910 SL-001-SA5B-SS-0.0-0.5 SL-002-SA5B-SS-0.0-0.5 SL-006-SA5B-SS-0.0-0.5 SL-007-SA5B-SS-0.0-0.5 SL-010-SA5B-SS-0.0-0.5 SL-011-SA5B-SS-0.0-0.5 SL-012-SA5B-SS-0.0-0.5 SL-013-SA5B-SS-0.0-0.5 SL-014-SA5B-SS-0.0-0.5 SL-018-SA5B-SS-0.0-0.5 SL-020-SA5B-SS-0.0-0.5 SL-022-SA5B-SS-0.0-0.5 SL-031-SA5B-SS-0.0-0.5 SL-291-SA5B-SS-0.0-0.5 SL-294-SA5B-SS-0.0-0.5 SL-306-SA5B-SS-0.0-0.5 SL-307-SA5B-SS-0.0-0.5)	PHOSPHORUS	54	-	75.00-125.00	-	PHOSPHORUS	No Qual, >4x

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-012-SA5B-SS-0.0-0.5MSD (SL-012-SA5B-SS-0.0-0.5)	BENZOIC ACID	-	-	10.00-173.00	33 (30.00)	BENZOIC ACID	J(all detects)

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-012-SA5B-SS-0.0-0.5MS SL-012-SA5B-SS-0.0-0.5MSD (SL-012-SA5B-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT	-131	-129	39.00-167.00	-	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects) R(all non-detects)
SL-012-SA5B-SS-0.0-0.5MS SL-012-SA5B-SS-0.0-0.5MSD (SL-012-SA5B-SS-0.0-0.5)	N-NITROSODIMETHYLAMINE	11	5	48.00-113.00	75 (30.00)	N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-012-SA5B-SS-0.0-0.5MS SL-012-SA5B-SS-0.0-0.5MSD (DUP01-SA5B-QC-120810 DUP02-SA5B-QC-120910 SL-001-SA5B-SS-0.0-0.5 SL-002-SA5B-SS-0.0-0.5 SL-006-SA5B-SS-0.0-0.5 SL-007-SA5B-SS-0.0-0.5 SL-010-SA5B-SS-0.0-0.5 SL-011-SA5B-SS-0.0-0.5 SL-012-SA5B-SS-0.0-0.5 SL-013-SA5B-SS-0.0-0.5 SL-014-SA5B-SS-0.0-0.5 SL-018-SA5B-SS-0.0-0.5 SL-020-SA5B-SS-0.0-0.5 SL-022-SA5B-SS-0.0-0.5 SL-031-SA5B-SS-0.0-0.5 SL-291-SA5B-SS-0.0-0.5 SL-294-SA5B-SS-0.0-0.5 SL-306-SA5B-SS-0.0-0.5 SL-307-SA5B-SS-0.0-0.5)	CADMIUM CHROMIUM LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	129 144 139 - - - - -	128 163 134 142 131 134 132 195	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - -	CADMIUM CHROMIUM LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects)
SL-012-SA5B-SS-0.0-0.5MS SL-012-SA5B-SS-0.0-0.5MSD (DUP01-SA5B-QC-120810 DUP02-SA5B-QC-120910 SL-001-SA5B-SS-0.0-0.5 SL-002-SA5B-SS-0.0-0.5 SL-006-SA5B-SS-0.0-0.5 SL-007-SA5B-SS-0.0-0.5 SL-010-SA5B-SS-0.0-0.5 SL-011-SA5B-SS-0.0-0.5 SL-012-SA5B-SS-0.0-0.5 SL-013-SA5B-SS-0.0-0.5 SL-014-SA5B-SS-0.0-0.5 SL-018-SA5B-SS-0.0-0.5 SL-020-SA5B-SS-0.0-0.5 SL-022-SA5B-SS-0.0-0.5 SL-031-SA5B-SS-0.0-0.5 SL-291-SA5B-SS-0.0-0.5 SL-294-SA5B-SS-0.0-0.5 SL-306-SA5B-SS-0.0-0.5 SL-307-SA5B-SS-0.0-0.5)	ANTIMONY	71	61	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-012-SA5B-SS-0.0-0.5MSD (DUP01-SA5B-QC-120810 DUP02-SA5B-QC-120910 SL-001-SA5B-SS-0.0-0.5 SL-002-SA5B-SS-0.0-0.5 SL-006-SA5B-SS-0.0-0.5 SL-007-SA5B-SS-0.0-0.5 SL-010-SA5B-SS-0.0-0.5 SL-011-SA5B-SS-0.0-0.5 SL-012-SA5B-SS-0.0-0.5 SL-013-SA5B-SS-0.0-0.5 SL-014-SA5B-SS-0.0-0.5 SL-018-SA5B-SS-0.0-0.5 SL-020-SA5B-SS-0.0-0.5 SL-022-SA5B-SS-0.0-0.5 SL-031-SA5B-SS-0.0-0.5 SL-291-SA5B-SS-0.0-0.5 SL-294-SA5B-SS-0.0-0.5 SL-306-SA5B-SS-0.0-0.5 SL-307-SA5B-SS-0.0-0.5)	MOLYBDENUM	-	133	75.00-125.00	-	MOLYBDENUM	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-012-SA5B-SS-0.0-0.5MSD (DUP01-SA5B-QC-120810 DUP02-SA5B-QC-120910 SL-001-SA5B-SS-0.0-0.5 SL-002-SA5B-SS-0.0-0.5 SL-006-SA5B-SS-0.0-0.5 SL-007-SA5B-SS-0.0-0.5 SL-010-SA5B-SS-0.0-0.5 SL-011-SA5B-SS-0.0-0.5 SL-012-SA5B-SS-0.0-0.5 SL-013-SA5B-SS-0.0-0.5 SL-014-SA5B-SS-0.0-0.5 SL-018-SA5B-SS-0.0-0.5 SL-020-SA5B-SS-0.0-0.5 SL-022-SA5B-SS-0.0-0.5 SL-031-SA5B-SS-0.0-0.5 SL-291-SA5B-SS-0.0-0.5 SL-294-SA5B-SS-0.0-0.5 SL-306-SA5B-SS-0.0-0.5 SL-307-SA5B-SS-0.0-0.5)	BARIUM	-	176	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-022-SA5B-SS-0.0-0.5MS (SL-022-SA5B-SS-0.0-0.5)	METHYLENE CHLORIDE	147	-	61.00-141.00	-	METHYLENE CHLORIDE	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-012-SA5B-SS-0.0-0.5DUP (DUP01-SA5B-QC-120810 DUP02-SA5B-QC-120910 SL-001-SA5B-SS-0.0-0.5 SL-002-SA5B-SS-0.0-0.5 SL-006-SA5B-SS-0.0-0.5 SL-007-SA5B-SS-0.0-0.5 SL-010-SA5B-SS-0.0-0.5 SL-011-SA5B-SS-0.0-0.5 SL-012-SA5B-SS-0.0-0.5 SL-013-SA5B-SS-0.0-0.5 SL-014-SA5B-SS-0.0-0.5 SL-018-SA5B-SS-0.0-0.5 SL-020-SA5B-SS-0.0-0.5 SL-022-SA5B-SS-0.0-0.5 SL-031-SA5B-SS-0.0-0.5 SL-291-SA5B-SS-0.0-0.5 SL-294-SA5B-SS-0.0-0.5 SL-306-SA5B-SS-0.0-0.5 SL-307-SA5B-SS-0.0-0.5)	STRONTIUM TIN	23 23	20.00 20.00	J (all detects) UJ (all non-detects) Sn No Qual OK by difference

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-012-SA5B-SS-0.0-0.5DUP (DUP01-SA5B-QC-120810 DUP02-SA5B-QC-120910 SL-001-SA5B-SS-0.0-0.5 SL-002-SA5B-SS-0.0-0.5 SL-006-SA5B-SS-0.0-0.5 SL-007-SA5B-SS-0.0-0.5 SL-010-SA5B-SS-0.0-0.5 SL-011-SA5B-SS-0.0-0.5 SL-012-SA5B-SS-0.0-0.5 SL-013-SA5B-SS-0.0-0.5 SL-014-SA5B-SS-0.0-0.5 SL-018-SA5B-SS-0.0-0.5 SL-020-SA5B-SS-0.0-0.5 SL-022-SA5B-SS-0.0-0.5 SL-031-SA5B-SS-0.0-0.5 SL-291-SA5B-SS-0.0-0.5 SL-294-SA5B-SS-0.0-0.5 SL-306-SA5B-SS-0.0-0.5 SL-307-SA5B-SS-0.0-0.5)	ANTIMONY BARIUM BERYLLIUM COBALT LEAD SILVER THALLIUM ZINC	67 26 22 24 23 72 55 24	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Sb, Be, Ag, Tl No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03473AQ241516A P03473AY241458A (DUP01 -SA5B-QC-120810 DUP02-SA5B-QC-120910 SL -001-SA5B-SS-0.0-0.5 SL -002-SA5B-SS-0.0-0.5 SL -006-SA5B-SS-0.0-0.5 SL -007-SA5B-SS-0.0-0.5 SL -010-SA5B-SS-0.0-0.5 SL -011-SA5B-SS-0.0-0.5 SL -012-SA5B-SS-0.0-0.5 SL -013-SA5B-SS-0.0-0.5 SL -014-SA5B-SS-0.0-0.5 SL -018-SA5B-SS-0.0-0.5 SL -020-SA5B-SS-0.0-0.5 SL -022-SA5B-SS-0.0-0.5 SL -031-SA5B-SS-0.0-0.5 SL -291-SA5B-SS-0.0-0.5 SL -294-SA5B-SS-0.0-0.5 SL -306-SA5B-SS-0.0-0.5 SL -307-SA5B-SS-0.0-0.5)	Aroclor 5442	70	71	75.00-125.00	-	Aroclor 5432, 5442, 5460	J (all detects) UJ (all non-detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03483AQ241832A (DUP01 -SA5B-QC-120810 DUP02-SA5B-QC-120910 SL -001-SA5B-SS-0.0-0.5 SL -002-SA5B-SS-0.0-0.5 SL -007-SA5B-SS-0.0-0.5 SL -010-SA5B-SS-0.0-0.5 SL -011-SA5B-SS-0.0-0.5 SL -013-SA5B-SS-0.0-0.5 SL -014-SA5B-SS-0.0-0.5 SL -018-SA5B-SS-0.0-0.5 SL -020-SA5B-SS-0.0-0.5 SL -022-SA5B-SS-0.0-0.5 SL -031-SA5B-SS-0.0-0.5 SL -291-SA5B-SS-0.0-0.5 SL -294-SA5B-SS-0.0-0.5 SL -306-SA5B-SS-0.0-0.5)	4,4'-DDT METHOXYCHLOR	156 158	- -	54.00-130.00 59.00-125.00	- -	4,4'-DDT METHOXYCHLOR	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P34926DQ220926A (DUP01-SA5B-QC-120810 DUP02-SA5B-QC-120910 SL -001-SA5B-SS-0.0-0.5 SL -002-SA5B-SS-0.0-0.5 SL -006-SA5B-SS-0.0-0.5 SL -007-SA5B-SS-0.0-0.5 SL -010-SA5B-SS-0.0-0.5 SL -011-SA5B-SS-0.0-0.5 SL -012-SA5B-SS-0.0-0.5 SL -013-SA5B-SS-0.0-0.5 SL -014-SA5B-SS-0.0-0.5 SL -018-SA5B-SS-0.0-0.5 SL -020-SA5B-SS-0.0-0.5 SL -022-SA5B-SS-0.0-0.5 SL -031-SA5B-SS-0.0-0.5 SL -291-SA5B-SS-0.0-0.5 SL -294-SA5B-SS-0.0-0.5 SL -306-SA5B-SS-0.0-0.5 SL -307-SA5B-SS-0.0-0.5)	ANTIMONY	144	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-291-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	231	20.00-120.00	All Target Analytes	No Qual Diluted Out

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-011-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	123	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-018-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	136	45.00-120.00	All Target Analytes	J(all detects)
SL-020-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	132 143	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)

Method: 8270C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-002-SA5B-SS-0.0-0.5	2,4,6-TRIBROMOPHENOL 2-FLUOROBIPHENYL 2-FLUOROPHENOL Nitrobenzene-d5 PHENOL-D6 Terphenyl-d14	0 0 0 0 0 0	35.00-130.00 45.00-130.00 25.00-130.00 40.00-130.00 25.00-120.00 45.00-135.00	All Target Analytes	J (all detects) R (all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-012-SA5B-SS-0.0-0.5	DUP02-SA5B-QC-120910			
MOISTURE	8.5	6.9	21		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-012-SA5B-SS-0.0-0.5	DUP02-SA5B-QC-120910			
FLUORIDE	1.5	1.4	7	50.00	No Qualifiers Applied

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-012-SA5B-SS-0.0-0.5	DUP02-SA5B-QC-120910			
ALUMINUM	9350	8560	9	50.00	No Qualifiers Applied
BORON	2.93	3.74	24	50.00	
CALCIUM	4390	4480	2	50.00	
IRON	12300	13200	7	50.00	
LITHIUM	8.5	12.7	40	50.00	
MAGNESIUM	2750	3030	10	50.00	
MANGANESE	154	160	4	50.00	
PHOSPHORUS	502	508	1	50.00	
POTASSIUM	1550	2090	30	50.00	
SODIUM	191	201	5	50.00	
STRONTIUM	45.5	36.9	21	50.00	
TIN	1.86	1.15	47	50.00	
TITANIUM	737	759	3	50.00	
Zirconium	4.45	2.45	58	50.00	J(all detects)

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-012-SA5B-SS-0.0-0.5	DUP02-SA5B-QC-120910			
ARSENIC	5.09	3.64	33	50.00	No Qualifiers Applied
BARIUM	73.3	67.5	8	50.00	
BERYLLIUM	0.302	0.254	17	50.00	
CADMIUM	0.149	0.112	28	50.00	
CHROMIUM	30.6	23.4	27	50.00	
COBALT	5.03	4.31	15	50.00	
COPPER	7.96	7.39	7	50.00	
LEAD	3.82	3.31	14	50.00	
MOLYBDENUM	1.74	1.43	20	50.00	
NICKEL	14.2	10.8	27	50.00	
SILVER	0.0319	0.0219	37	50.00	
THALLIUM	0.173	0.131	28	50.00	
VANADIUM	36.5	31.0	16	50.00	
ZINC	38.7	44.2	13	50.00	
ANTIMONY	0.294	0.157	61	50.00	J(all detects)
SELENIUM	0.403	0.200	67	50.00	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-012-SA5B-SS-0.0-0.5	DUP02-SA5B-QC-120910			
BETA-BHC	0.18 U	0.084	200	50.00	J(all detects)
ENDRIN KETONE	0.17	0.37 U	200	50.00	UJ(all non-detects)

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-012-SA5B-SS-0.0-0.5	DUP02-SA5B-QC-120910			
AROCLOR 1260	1.9 U	0.65	200	50.00	J(all detects)
Aroclor 5460	3.6 U	4.3	200	50.00	UJ(all non-detects)

Method: 8151A

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-012-SA5B-SS-0.0-0.5	DUP02-SA5B-QC-120910			
2,4-DB	1.9 U	1.8	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-012-SA5B-SS-0.0-0.5	DUP02-SA5B-QC-120910			
ANTHRACENE	1.8 U	0.42	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)ANTHRACENE	1.8 U	1.9	200	50.00	
BENZO(A)PYRENE	1.8 U	2.1	200	50.00	
BENZO(B)FLUORANTHENE	1.8 U	3.6	200	50.00	
BENZO(G,H,I)PERYLENE	1.8 U	1.3	200	50.00	
BENZO(K)FLUORANTHENE	1.8 U	1.9	200	50.00	
BIS(2-ETHYLHEXYL)PHthalate	88	8.9	163	50.00	
CHRYSENE	1.8 U	2.3	200	50.00	
Di-n-butylphthalate	7.0	19 U	200	50.00	
FLUORANTHENE	1.8 U	2.8	200	50.00	
INDENO(1,2,3-CD)PYRENE	1.8 U	0.82	200	50.00	
PHENANTHRENE	1.8 U	0.81	200	50.00	
PYRENE	1.0	2.4	82	50.00	

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-012-SA5B-SS-0.0-0.5	DUP02-SA5B-QC-120910			
PH	8.27	9.10	10	50.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: ASTM D1498

Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-012-SA5B-SS-0.0- 0.5	DUP02-SA5B-QC- 120910			
Oxidation Reduction Potential	386	401	4		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5B-SS-0.0-0.5	N-NITROSODIMETHYLAMINE	J	21.3	36.4	PQL	ng/Kg	J (all detects)
SL-020-SA5B-SS-0.0-0.5	N-NITROSODIMETHYLAMINE	J	27.6	36.4	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5B-SS-0.0-0.5	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)
SL-013-SA5B-SS-0.0-0.5	FLUORIDE	J	1.0	1.1	PQL	mg/Kg	J (all detects)
SL-014-SA5B-SS-0.0-0.5	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)
SL-018-SA5B-SS-0.0-0.5	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)
SL-020-SA5B-SS-0.0-0.5	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)

Method: 314.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-306-SA5B-SS-0.0-0.5	PERCHLORATE	J	11.6	33.1	PQL	ug/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5B-QC-120810	BORON	J	3.23	5.40	PQL	mg/Kg	J (all detects)
	TIN	J	1.73	10.8	PQL	mg/Kg	
	Zirconium	J	2.74	5.40	PQL	mg/Kg	
DUP02-SA5B-QC-120910	BORON	J	3.74	5.37	PQL	mg/Kg	J (all detects)
	TIN	J	1.15	10.7	PQL	mg/Kg	
	Zirconium	J	2.45	5.37	PQL	mg/Kg	
SL-001-SA5B-SS-0.0-0.5	BORON	J	2.69	5.21	PQL	mg/Kg	J (all detects)
	TIN	J	1.90	10.4	PQL	mg/Kg	
	Zirconium	J	1.90	5.21	PQL	mg/Kg	
SL-002-SA5B-SS-0.0-0.5	BORON	J	3.31	5.22	PQL	mg/Kg	J (all detects)
	TIN	J	1.90	10.4	PQL	mg/Kg	
	Zirconium	J	0.968	5.22	PQL	mg/Kg	
SL-006-SA5B-SS-0.0-0.5	BORON	J	4.20	5.36	PQL	mg/Kg	J (all detects)
	TIN	J	1.52	10.7	PQL	mg/Kg	
	Zirconium	J	3.51	5.36	PQL	mg/Kg	
SL-007-SA5B-SS-0.0-0.5	BORON	J	3.64	5.16	PQL	mg/Kg	J (all detects)
	TIN	J	1.79	10.3	PQL	mg/Kg	
	Zirconium	J	2.00	5.16	PQL	mg/Kg	
SL-010-SA5B-SS-0.0-0.5	BORON	J	3.62	5.46	PQL	mg/Kg	J (all detects)
	TIN	J	1.90	10.9	PQL	mg/Kg	
	Zirconium	J	2.12	5.46	PQL	mg/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5B-SS-0.0-0.5	BORON	J	2.25	5.30	PQL	mg/Kg	J (all detects)
	TIN	J	4.36	10.6	PQL	mg/Kg	
SL-012-SA5B-SS-0.0-0.5	BORON	J	2.93	5.46	PQL	mg/Kg	J (all detects)
	TIN	J	1.86	10.9	PQL	mg/Kg	
	Zirconium	J	4.45	5.46	PQL	mg/Kg	
SL-013-SA5B-SS-0.0-0.5	BORON	J	3.35	5.21	PQL	mg/Kg	J (all detects)
	TIN	J	1.81	10.4	PQL	mg/Kg	
	Zirconium	J	1.98	5.21	PQL	mg/Kg	
SL-014-SA5B-SS-0.0-0.5	BORON	J	4.15	5.39	PQL	mg/Kg	J (all detects)
	TIN	J	1.75	10.8	PQL	mg/Kg	
	Zirconium	J	3.33	5.39	PQL	mg/Kg	
SL-018-SA5B-SS-0.0-0.5	BORON	J	4.53	5.45	PQL	mg/Kg	J (all detects)
	TIN	J	1.62	10.9	PQL	mg/Kg	
	Zirconium	J	3.77	5.45	PQL	mg/Kg	
SL-020-SA5B-SS-0.0-0.5	BORON	J	4.16	5.46	PQL	mg/Kg	J (all detects)
	TIN	J	1.91	10.9	PQL	mg/Kg	
	Zirconium	J	2.77	5.46	PQL	mg/Kg	
SL-022-SA5B-SS-0.0-0.5	BORON	J	2.20	5.36	PQL	mg/Kg	J (all detects)
	TIN	J	2.57	10.7	PQL	mg/Kg	
	Zirconium	J	1.76	5.36	PQL	mg/Kg	
SL-031-SA5B-SS-0.0-0.5	BORON	J	1.82	5.33	PQL	mg/Kg	J (all detects)
	TIN	J	2.19	10.7	PQL	mg/Kg	
	Zirconium	J	1.49	5.33	PQL	mg/Kg	
SL-291-SA5B-SS-0.0-0.5	TIN	J	1.38	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.01	5.27	PQL	mg/Kg	
SL-294-SA5B-SS-0.0-0.5	BORON	J	3.83	5.27	PQL	mg/Kg	J (all detects)
	TIN	J	2.03	10.5	PQL	mg/Kg	
	Zirconium	J	0.978	5.27	PQL	mg/Kg	
SL-306-SA5B-SS-0.0-0.5	BORON	J	4.31	5.30	PQL	mg/Kg	J (all detects)
	TIN	J	2.13	10.6	PQL	mg/Kg	
	Zirconium	J	1.74	5.30	PQL	mg/Kg	
SL-307-SA5B-SS-0.0-0.5	BORON	J	3.20	5.26	PQL	mg/Kg	J (all detects)
	TIN	J	1.76	10.5	PQL	mg/Kg	
	Zirconium	J	2.50	5.26	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5B-QC-120810	SELENIUM	J	0.199	0.436	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0287	0.109	PQL	mg/Kg	
DUP02-SA5B-QC-120910	ANTIMONY	J	0.157	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.200	0.421	PQL	mg/Kg	
	SILVER	J	0.0219	0.105	PQL	mg/Kg	
SL-001-SA5B-SS-0.0-0.5	ANTIMONY	J	0.204	0.207	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0885	0.103	PQL	mg/Kg	
	SELENIUM	J	0.219	0.413	PQL	mg/Kg	
	SILVER	J	0.0170	0.103	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5B-SS-0.0-0.5	ANTIMONY	J	0.176	0.207	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0734	0.103	PQL	mg/Kg	
	SELENIUM	J	0.102	0.414	PQL	mg/Kg	
	SILVER	J	0.0280	0.103	PQL	mg/Kg	
SL-006-SA5B-SS-0.0-0.5	SELENIUM	J	0.212	0.421	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0663	0.105	PQL	mg/Kg	
SL-007-SA5B-SS-0.0-0.5	SELENIUM	J	0.399	0.417	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0704	0.104	PQL	mg/Kg	
SL-010-SA5B-SS-0.0-0.5	SELENIUM	J	0.250	0.437	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0609	0.109	PQL	mg/Kg	
SL-011-SA5B-SS-0.0-0.5	SELENIUM	J	0.186	0.432	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0409	0.108	PQL	mg/Kg	
SL-012-SA5B-SS-0.0-0.5	SELENIUM	J	0.403	0.433	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0319	0.108	PQL	mg/Kg	
SL-013-SA5B-SS-0.0-0.5	ANTIMONY	J	0.140	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.275	0.430	PQL	mg/Kg	
	SILVER	J	0.0459	0.107	PQL	mg/Kg	
SL-014-SA5B-SS-0.0-0.5	SELENIUM	J	0.263	0.427	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0179	0.107	PQL	mg/Kg	
SL-018-SA5B-SS-0.0-0.5	SELENIUM	J	0.218	0.427	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0354	0.107	PQL	mg/Kg	
SL-020-SA5B-SS-0.0-0.5	SELENIUM	J	0.322	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0247	0.106	PQL	mg/Kg	
SL-022-SA5B-SS-0.0-0.5	SELENIUM	J	0.161	0.433	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0183	0.108	PQL	mg/Kg	
SL-031-SA5B-SS-0.0-0.5	ANTIMONY	J	0.193	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.183	0.427	PQL	mg/Kg	
	SILVER	J	0.0351	0.107	PQL	mg/Kg	
SL-294-SA5B-SS-0.0-0.5	SELENIUM	J	0.143	0.425	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0263	0.106	PQL	mg/Kg	
SL-306-SA5B-SS-0.0-0.5	SELENIUM	J	0.204	0.441	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0269	0.110	PQL	mg/Kg	
SL-307-SA5B-SS-0.0-0.5	ANTIMONY	J	0.187	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.176	0.425	PQL	mg/Kg	
	SILVER	J	0.0263	0.106	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.30	1.1	PQL	mg/Kg	J (all detects)
SL-010-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.35	1.1	PQL	mg/Kg	J (all detects)
SL-291-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.35	1.1	PQL	mg/Kg	J (all detects)
SL-306-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5B-QC-120810	MERCURY	J	0.0068	0.107	PQL	mg/Kg	J (all detects)
SL-002-SA5B-SS-0.0-0.5	MERCURY	J	0.0070	0.105	PQL	mg/Kg	J (all detects)
SL-007-SA5B-SS-0.0-0.5	MERCURY	J	0.0063	0.102	PQL	mg/Kg	J (all detects)
SL-010-SA5B-SS-0.0-0.5	MERCURY	J	0.0148	0.110	PQL	mg/Kg	J (all detects)
SL-013-SA5B-SS-0.0-0.5	MERCURY	J	0.0378	0.107	PQL	mg/Kg	J (all detects)
SL-014-SA5B-SS-0.0-0.5	MERCURY	J	0.0043	0.107	PQL	mg/Kg	J (all detects)
SL-291-SA5B-SS-0.0-0.5	MERCURY	J	0.0114	0.0996	PQL	mg/Kg	J (all detects)
SL-307-SA5B-SS-0.0-0.5	MERCURY	J	0.0143	0.107	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-022-SA5B-SS-0.0-0.5	EFH (C15-C20)	J	8.3	13	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5B-QC-120810	ENDRIN ALDEHYDE	J	0.14	0.37	PQL	ug/Kg	J (all detects)
DUP02-SA5B-QC-120910	BETA-BHC	J	0.084	0.18	PQL	ug/Kg	J (all detects)
SL-002-SA5B-SS-0.0-0.5	BETA-BHC MIREX	J	0.098	0.18	PQL	ug/Kg	J (all detects)
		J	0.20	0.36	PQL	ug/Kg	
SL-011-SA5B-SS-0.0-0.5	HEPTACHLOR	J	0.55	0.91	PQL	ug/Kg	J (all detects)
SL-012-SA5B-SS-0.0-0.5	ENDRIN KETONE	J	0.17	0.37	PQL	ug/Kg	J (all detects)
SL-018-SA5B-SS-0.0-0.5	BETA-BHC ENDRIN ALDEHYDE	J	0.13	0.18	PQL	ug/Kg	J (all detects)
		J	0.10	0.37	PQL	ug/Kg	
SL-020-SA5B-SS-0.0-0.5	BETA-BHC	J	0.081	0.18	PQL	ug/Kg	J (all detects)
SL-294-SA5B-SS-0.0-0.5	HEPTACHLOR EPOXIDE	J	0.040	0.18	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5B-QC-120810	AROCLOR 1254	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.80	1.9	PQL	ug/Kg	
	Aroclor 5460	J	1.7	3.6	PQL	ug/Kg	
DUP02-SA5B-QC-120910	AROCLOR 1260	J	0.65	1.8	PQL	ug/Kg	J (all detects)
SL-001-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.2	1.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.74	1.8	PQL	ug/Kg	J (all detects)
SL-006-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.44	1.8	PQL	ug/Kg	J (all detects)
SL-007-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.53	1.8	PQL	ug/Kg	J (all detects)
SL-013-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.7	1.8	PQL	ug/Kg	
SL-014-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.47	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.3	3.7	PQL	ug/Kg	
SL-018-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.46	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.52	1.9	PQL	ug/Kg	
	Aroclor 5460	J	1.3	3.6	PQL	ug/Kg	
SL-020-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.62	1.9	PQL	ug/Kg	J (all detects)
SL-022-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.0	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.1	1.9	PQL	ug/Kg	
	Aroclor 5460	J	2.0	3.6	PQL	ug/Kg	
SL-031-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.3	1.8	PQL	ug/Kg	
	Aroclor 5460	J	2.0	3.6	PQL	ug/Kg	
SL-291-SA5B-SS-0.0-0.5	Aroclor 5460	J	2.4	3.5	PQL	ug/Kg	J (all detects)
SL-294-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.80	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.6	3.6	PQL	ug/Kg	
SL-306-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.7	1.9	PQL	ug/Kg	J (all detects)
SL-307-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.50	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.82	1.9	PQL	ug/Kg	

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5B-QC-120810	MCPA	J	260	270	PQL	ug/Kg	J (all detects)
SL-001-SA5B-SS-0.0-0.5	MCPP	J	170	270	PQL	ug/Kg	J (all detects)
SL-010-SA5B-SS-0.0-0.5	MCPP	J	250	280	PQL	ug/Kg	J (all detects)
SL-011-SA5B-SS-0.0-0.5	DINOSEB	J	1.1	2.6	PQL	ug/Kg	J (all detects)
SL-014-SA5B-SS-0.0-0.5	2,4-DB	J	1.7	1.9	PQL	ug/Kg	J (all detects)
	MCPA	J	230	280	PQL	ug/Kg	
SL-020-SA5B-SS-0.0-0.5	MCPP	J	230	270	PQL	ug/Kg	J (all detects)
SL-022-SA5B-SS-0.0-0.5	MCPA	J	260	270	PQL	ug/Kg	J (all detects)
SL-031-SA5B-SS-0.0-0.5	MCPA	J	250	270	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	0.57	4.2	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.10	4.2	PQL	ug/Kg	
SL-014-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	0.53	4.1	PQL	ug/Kg	J (all detects)
SL-018-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	0.44	3.8	PQL	ug/Kg	J (all detects)
SL-020-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	0.57	4.2	PQL	ug/Kg	J (all detects)
SL-022-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	1.1	3.9	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.13	3.9	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	49	180	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	39	180	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	53	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	20	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	22	180	PQL	ug/Kg	
	CHRYSENE	J	52	180	PQL	ug/Kg	
	FLUORANTHENE	J	46	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	26	180	PQL	ug/Kg	
	PYRENE	J	55	180	PQL	ug/Kg	
SL-007-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	22	180	PQL	ug/Kg	J (all detects)
SL-011-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	20	180	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	21	180	PQL	ug/Kg	
	PYRENE	J	19	180	PQL	ug/Kg	
SL-014-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	20	190	PQL	ug/Kg	J (all detects)
SL-022-SA5B-SS-0.0-0.5	FLUORANTHENE	J	22	180	PQL	ug/Kg	J (all detects)
	PYRENE	J	27	180	PQL	ug/Kg	
SL-291-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	100	180	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	57	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	50	180	PQL	ug/Kg	
	CHRYSENE	J	89	180	PQL	ug/Kg	
	FLUORANTHENE	J	53	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	25	180	PQL	ug/Kg	
	PHENANTHRENE	J	29	180	PQL	ug/Kg	
	PYRENE	J	57	180	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5B-QC-120810	BENZO(A)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.2	20	PQL	ug/Kg	
	FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.81	1.8	PQL	ug/Kg	
	PYRENE	J	1.7	1.8	PQL	ug/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA5B-QC-120910	ANTHRACENE	J	0.42	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.9	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.82	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.81	1.8	PQL	ug/Kg	
SL-001-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	19	PQL	ug/Kg	J (all detects)
SL-002-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	0.55	1.8	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.87	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.89	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.3	19	PQL	ug/Kg	
	FLUORENE	J	0.84	1.8	PQL	ug/Kg	
SL-006-SA5B-SS-0.0-0.5	PHENANTHRENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	17	20	PQL	ug/Kg	
SL-007-SA5B-SS-0.0-0.5	PHENANTHRENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.73	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	19	PQL	ug/Kg	
	CHRYSENE	J	0.81	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.83	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
SL-010-SA5B-SS-0.0-0.5	PYRENE	J	0.81	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	20	PQL	ug/Kg	
SL-011-SA5B-SS-0.0-0.5	CHRYSENE	J	0.43	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.3	20	PQL	ug/Kg	
SL-012-SA5B-SS-0.0-0.5	PHENANTHRENE	J	0.87	1.8	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	7.0	20	PQL	ug/Kg	
SL-013-SA5B-SS-0.0-0.5	PYRENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	0.76	1.8	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.66	1.8	PQL	ug/Kg	
SL-014-SA5B-SS-0.0-0.5	FLUORENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.78	1.9	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.4	1.9	PQL	ug/Kg	
	CHRYSENE	J	0.91	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.3	20	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	1.9	PQL	ug/Kg	
SL-018-SA5B-SS-0.0-0.5	PYRENE	J	0.94	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.84	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.85	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.80	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	20	PQL	ug/Kg	
	CHRYSENE	J	0.88	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.8	PQL	ug/Kg	
SL-020-SA5B-SS-0.0-0.5	PYRENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	20	PQL	ug/Kg	
	CHRYSENE	J	1.0	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.6	20	PQL	ug/Kg	
	FLUORANTHENE	J	0.82	1.8	PQL	ug/Kg	
	PYRENE	J	0.84	1.8	PQL	ug/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE032

Laboratory: LL

EDD Filename: DE032_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-022-SA5B-SS-0.0-0.5	Di-n-butylphthalate	J	9.1	20	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	1.6	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.82	1.8	PQL	ug/Kg	
SL-031-SA5B-SS-0.0-0.5	DIBENZO(A,H)ANTHRACENE	J	0.73	1.8	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	1.6	1.8	PQL	ug/Kg	
SL-291-SA5B-SS-0.0-0.5	ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	17	19	PQL	ug/Kg	
	Butylbenzylphthalate	J	6.7	19	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	12	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	8.5	19	PQL	ug/Kg	
SL-294-SA5B-SS-0.0-0.5	Di-n-butylphthalate	J	6.7	20	PQL	ug/Kg	J (all detects)
SL-306-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.56	1.8	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.7	1.8	PQL	ug/Kg	
	Dimethylphthalate	J	7.7	20	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.0	20	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.8	PQL	ug/Kg	
SL-307-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	20	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	1.5	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.93	1.8	PQL	ug/Kg	

Method: 8315A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5B-SS-0.0-0.5	FORMALDEHYDE	J	1200	1600	PQL	ug/Kg	J (all detects)
SL-020-SA5B-SS-0.0-0.5	FORMALDEHYDE	J	690	1600	PQL	ug/Kg	J (all detects)

LDC #: 25750B4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE032

ADR

Laboratory: Lancaster Laboratories

Date: 7/1/4

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MSD (Al, Ba, Ca, Fe, Mg, P, Ti 74x)
VII.	Duplicate Sample Analysis	N	DUP (Sb, Be, Ag, TL, Sn 84x)
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	(Ba: 14%, Cr: 12%, Pb: 13%) J/JS
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	—	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil

1	SL-022-SA5B-SS-0.0-0.5	11	SL-012-SA5B-SS-0.0-0.5 ^{2u}	21	SL-012-SA5B-SS-0.0-0.5MSD	31	
2	SL-031-SA5B-SS-0.0-0.5	12	SL-013-SA5B-SS-0.0-0.5	22	SL-012-SA5B-SS-0.0-0.5DUP	32	
3	SL-294-SA5B-SS-0.0-0.5	13	SL-018-SA5B-SS-0.0-0.5	23		33	
4	SL-307-SA5B-SS-0.0-0.5	14	SL-020-SA5B-SS-0.0-0.5	24		34	
5	DUP-01-SA5B-QC-120810 ^{2u}	15	SL-306-SA5B-SS-0.0-0.5	25		35	
6	SL-011-SA5B-SS-0.0-0.5	16	DUP-02-SA5B-QC-120910 ^{2u}	26		36	
7	SL-014-SA5B-SS-0.0-0.5	17	SL-291-SA5B-SS-0.0-0.5	27		37	
8	SL-001-SA5B-SS-0.0-0.5	18	SL-002-SA5B-SS-0.0-0.5	28		38	
9	SL-006-SA5B-SS-0.0-0.5	19	SL-007-SA5B-SS-0.0-0.5	29		39	
10	SL-010-SA5B-SS-0.0-0.5	20	SL-012-SA5B-SS-0.0-0.5MS	30		40	

Notes: _____

LDC #: 25750B4

VALIDATION FINDINGS WORKSHEET

PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: 100x x MS: 2x dil

Sample Concentration units, unless otherwise noted: mg/Kg

Associated Samples: 1-18

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	1	2	3	4	5	7	8	9	10	11	12	13	14	16	17	18
Sb			0.50	0.5	0.24	0.19	0.30	0.19	0.27	0.29	0.20	0.33	0.26	0.29	0.14	0.34	0.35	0.16	0.38	0.18

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 19

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	No Qual															
Sb			0.35	0.35																

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note: a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

SAMPLE DELIVERY GROUP

DE033

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	EB14-SA5C-120810	6162870	EB	3510C	8015B	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	3510C	8015M	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	3520C	1625C	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	5030B	8015M	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	8330	8330A	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	Gen Prep	300.0	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	Gen Prep	8015B	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	Gen Prep	8015M	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	METHOD	8151A	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	METHOD	8315A	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	METHOD	9012B	III
08-Dec-2010	EB14-SA5C-120810MSD	P162870M322030A	MSD	Gen Prep	8015M	III
08-Dec-2010	EB14-SA5C-120810MS	P162870R322014A	MS	Gen Prep	8015M	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3050B	6010B	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3050B	6020	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3060A	7199	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3546	1625C	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3550B	8015B	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3550B	8015M	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3550B	8082	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3550B	8270C	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3550B	8270C SIM	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	5035	8015M	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	5035	8260B	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	5035	8260B SIM	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	8330	8330A	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	Gen Prep	9045M	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	METHOD	300.0	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	METHOD	314.0	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	METHOD	7471A	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	METHOD	8015B	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	METHOD	8015M	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	METHOD	8315A	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	METHOD	9012B	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3050B	6010B	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3050B	6020	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3060A	7199	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3546	1625C	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3550B	8015B	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3550B	8015M	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3550B	8082	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3550B	8270C	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3550B	8270C SIM	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	5035	8015M	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	5035	8260B	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	5035	8260B SIM	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	8330	8330A	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	Gen Prep	9045M	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	METHOD	300.0	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	METHOD	314.0	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	METHOD	6850	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	METHOD	7471A	III

III = EPA Level 3 Data Review
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N = Normal Sample
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FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	METHOD	8015B	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	METHOD	8015M	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	METHOD	8315A	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	METHOD	9012B	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3050B	6010B	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3050B	6020	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3060A	7199	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3546	1625C	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3550B	8015B	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3550B	8015M	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3550B	8082	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3550B	8270C	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3550B	8270C SIM	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	5035	8015M	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	5035	8260B	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	5035	8260B SIM	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	8330	8330A	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	Gen Prep	9045M	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	METHOD	300.0	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	METHOD	314.0	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	METHOD	6850	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	METHOD	7471A	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	METHOD	8015B	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	METHOD	8015M	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	METHOD	8315A	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	METHOD	9012B	III

III = EPA Level 3 Data Review
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FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3050B	6010B	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3050B	6020	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3060A	7199	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3546	1625C	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3550B	8015B	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3550B	8015M	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3550B	8082	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3550B	8270C	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3550B	8270C SIM	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	5035	8015M	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	5035	8260B	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	5035	8260B SIM	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	8330	8330A	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	Gen Prep	9045M	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	METHOD	300.0	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	METHOD	314.0	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	METHOD	6850	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	METHOD	7471A	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	METHOD	8015B	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	METHOD	8015M	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	METHOD	8315A	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	METHOD	9012B	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	3050B	6010B	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	3050B	6020	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	3060A	7199	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	3550B	8081A	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	3550B	8082	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	3550B	8151A	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	3550B	8270C	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	3550B	8270C SIM	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	Gen Prep	9045M	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	METHOD	300.0	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	METHOD	314.0	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	METHOD	7471A	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	3050B	6010B	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	3050B	6020	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	3060A	7199	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	3550B	8081A	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	3550B	8082	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	3550B	8151A	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	3550B	8270C	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	3550B	8270C SIM	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	Gen Prep	9045M	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	METHOD	300.0	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	METHOD	314.0	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	METHOD	7471A	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	3050B	6010B	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	3050B	6020	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	3060A	7199	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	3550B	8081A	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	3550B	8082	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	3550B	8151A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	3550B	8270C	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	3550B	8270C SIM	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	Gen Prep	9045M	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	METHOD	300.0	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	METHOD	314.0	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	METHOD	7471A	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	3050B	6010B	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	3050B	6020	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	3060A	7199	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	3550B	8081A	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	3550B	8082	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	3550B	8151A	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	3550B	8270C	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	3550B	8270C SIM	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	Gen Prep	9045M	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	METHOD	300.0	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	METHOD	314.0	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	METHOD	7471A	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5DUP	P162871D271729B	DUP	METHOD	300.0	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5MS	P162871R271743B	MS	METHOD	300.0	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3050B	6010B	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3050B	6020	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3060A	7199	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3546	1625C	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3550B	8015B	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3550B	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3550B	8082	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3550B	8270C	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3550B	8270C SIM	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	5035	8015M	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	5035	8260B	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	5035	8260B SIM	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	8330	8330A	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	Gen Prep	9045M	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	METHOD	300.0	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	METHOD	314.0	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	METHOD	7471A	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	METHOD	8015B	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	METHOD	8015M	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	METHOD	8315A	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	METHOD	9012B	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3050B	6010B	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3050B	6020	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3060A	7199	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3546	1625C	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3550B	8015B	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3550B	8015M	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3550B	8082	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3550B	8270C	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3550B	8270C SIM	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	5035	8015M	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	5035	8260B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	5035	8260B SIM	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	8330	8330A	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	Gen Prep	9045M	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	METHOD	300.0	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	METHOD	314.0	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	METHOD	7471A	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	METHOD	8015B	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	METHOD	8015M	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	METHOD	8315A	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	METHOD	9012B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3050B	6010B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3050B	6020	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3060A	7199	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3546	1625C	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3550B	8015B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3550B	8015M	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3550B	8081A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3550B	8082	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3550B	8151A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3550B	8270C	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3550B	8270C SIM	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	5035	8015M	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	5035	8260B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	5035	8260B SIM	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	8330	8330A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	Gen Prep	9045M	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	METHOD	300.0	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	METHOD	314.0	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	METHOD	6850	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	METHOD	7471A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	METHOD	8015B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	METHOD	8015M	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	METHOD	8315A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	METHOD	9012B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3050B	6010B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3050B	6020	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3060A	7199	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3546	1625C	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3550B	8015B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3550B	8015M	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3550B	8081A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3550B	8082	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3550B	8151A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3550B	8270C	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3550B	8270C SIM	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	8330	8330A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	METHOD	300.0	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	METHOD	314.0	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	METHOD	6850	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	METHOD	7471A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	METHOD	8015B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	METHOD	8015M	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	METHOD	8315A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	METHOD	9012B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3050B	6010B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3050B	6020	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3546	1625C	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3550B	8015B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3550B	8015M	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3550B	8081A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3550B	8082	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3550B	8151A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3550B	8270C	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3550B	8270C SIM	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	8330	8330A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	METHOD	6850	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	METHOD	7471A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	METHOD	8015B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	METHOD	8015M	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	METHOD	8315A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5DUP	6162867	DUP	3050B	6010B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5DUP	6162867	DUP	3050B	6020	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5DUP	6162867	DUP	3060A	7199	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5DUP	6162867	DUP	Gen Prep	9045M	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5DUP	6162867	DUP	METHOD	300.0	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5DUP	6162867	DUP	METHOD	314.0	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5DUP	6162867	DUP	METHOD	7471A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5DUP	6162867	DUP	METHOD	9012B	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	P162864M241109A	MSD	3550B	8082	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	P162864M321119A	MSD	3550B	8015M	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	P162864R241051A	MS	3550B	8082	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	P162864R321054A	MS	3550B	8015M	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3050B	6010B	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3050B	6020	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3060A	7199	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3546	1625C	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3550B	8015B	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3550B	8015M	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3550B	8082	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3550B	8270C	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3550B	8270C SIM	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	5035	8015M	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	5035	8260B	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	5035	8260B SIM	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	8330	8330A	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	Gen Prep	9045M	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	METHOD	300.0	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	METHOD	314.0	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	METHOD	6850	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	METHOD	7471A	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	METHOD	8015B	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	METHOD	8015M	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	METHOD	8315A	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	METHOD	9012B	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3050B	6010B	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3050B	6020	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3060A	7199	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3546	1625C	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3550B	8015B	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3550B	8015M	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3550B	8082	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3550B	8270C	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3550B	8270C SIM	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	5035	8015M	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	5035	8260B	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	5035	8260B SIM	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	8330	8330A	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	Gen Prep	9045M	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	METHOD	300.0	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	METHOD	314.0	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	METHOD	6850	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	METHOD	7471A	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	METHOD	8015B	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	METHOD	8015M	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	METHOD	8315A	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	METHOD	9012B	III
08-Dec-2010	TB-120810	6162859	TB	5030B	8015M	III
08-Dec-2010	TB-120810	6162859	TB	5030B	8260B	III
08-Dec-2010	TB-120810	6162859	TB	5030B	8260B SIM	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3050B	6010B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
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FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3050B	6020	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3060A	7199	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3546	1625C	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3550B	8015B	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3550B	8015M	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3550B	8082	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3550B	8270C	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3550B	8270C SIM	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	5035	8015M	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	5035	8260B	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	5035	8260B SIM	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	8330	8330A	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	Gen Prep	9045M	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	METHOD	300.0	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	METHOD	7471A	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	METHOD	8015B	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	METHOD	8015M	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	METHOD	8315A	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	METHOD	9012B	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0DUP	P162875D291045A	DUP	Gen Prep	9045M	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3050B	6010B	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3050B	6020	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3060A	7199	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3546	1625C	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3550B	8015B	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3550B	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3550B	8082	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3550B	8270C	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3550B	8270C SIM	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	5035	8015M	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	5035	8260B	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	5035	8260B SIM	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	8330	8330A	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	Gen Prep	9045M	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	METHOD	300.0	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	METHOD	7471A	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	METHOD	8015B	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	METHOD	8015M	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	METHOD	8315A	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	METHOD	9012B	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10MSD	P162876M321610A	MSD	METHOD	8015B	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10MSD	P162876M322209A	MSD	METHOD	8015M	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10MS	P162876R321555A	MS	METHOD	8015B	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10MS	P162876R322153A	MS	METHOD	8015M	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	3005A	6010B	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	3020A	6020	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	3510C	8081A	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	3510C	8082	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	3510C	8270C	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	3510C	8270C SIM	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	Gen Prep	300.0	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	Gen Prep	314.0	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	EB01-SA5B-120910	6162868	EB	Gen Prep	7199	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	Gen Prep	9040B	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	METHOD	7470A	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	METHOD	8151A	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3050B	6010B	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3050B	6020	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3060A	7199	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3546	1625C	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3550B	8015B	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3550B	8015M	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3550B	8082	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3550B	8270C	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3550B	8270C SIM	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	5035	8015M	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	5035	8260B	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	5035	8260B SIM	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	8330	8330A	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	Gen Prep	9045M	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	METHOD	300.0	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	METHOD	7471A	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	METHOD	8015B	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	METHOD	8015M	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	METHOD	8315A	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	METHOD	9012B	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3050B	6010B	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3050B	6020	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3060A	7199	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3546	1625C	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3550B	8015B	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3550B	8015M	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3550B	8082	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3550B	8270C	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3550B	8270C SIM	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	5035	8015M	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	5035	8260B	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	5035	8260B SIM	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	8330	8330A	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	Gen Prep	9045M	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	METHOD	300.0	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	METHOD	7471A	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	METHOD	8015B	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	METHOD	8015M	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	METHOD	8315A	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	METHOD	9012B	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3050B	6010B	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3050B	6020	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3060A	7199	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3546	1625C	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3550B	8015B	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3550B	8015M	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3550B	8082	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3550B	8270C	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3550B	8270C SIM	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	5035	8015M	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	5035	8260B	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	5035	8260B SIM	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	8330	8330A	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	Gen Prep	9045M	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	METHOD	300.0	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	METHOD	7471A	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	METHOD	8015B	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	METHOD	8015M	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	METHOD	8315A	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	METHOD	9012B	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3050B	6010B	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3050B	6020	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3060A	7199	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3546	1625C	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3550B	8015B	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3550B	8015M	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3550B	8082	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3550B	8270C	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3550B	8270C SIM	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	5035	8015M	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	5035	8260B	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	5035	8260B SIM	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	8330	8330A	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	Gen Prep	9045M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	METHOD	300.0	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	METHOD	7471A	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	METHOD	8015B	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	METHOD	8015M	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	METHOD	8315A	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	METHOD	9012B	III
09-Dec-2010	TB-120910	6162869	TB	5030B	8015M	III
09-Dec-2010	TB-120910	6162869	TB	5030B	8260B	III
09-Dec-2010	TB-120910	6162869	TB	5030B	8260B SIM	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	EM									
Method:	9040B					Matrix:	AQ			

Sample ID: EB01-SA5B-120910 Collected: 12/9/2010 12:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PH	5.6		0.010	MDL	0.010	PQL	pH unit	J	H

Method Category:	GENCHEM									
Method:	300.0					Matrix:	SO			

Sample ID: SL-012-SA5C-SB-4.0-5.0 Collected: 12/9/2010 1:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.0		0.89	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-012-SA5C-SB-9.0-10.0 Collected: 12/9/2010 1:14:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.1		0.98	MDL	1.2	PQL	mg/Kg	J	Q, E
Nitrate-NO3	1.5	J	0.98	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA5C-SB-4.0-5.0 Collected: 12/9/2010 1:44:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.5		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-013-SA5C-SB-9.0-10.0 Collected: 12/9/2010 1:52:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E
Nitrate-NO3	1.2	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA5C-SB-9.0-10.0 Collected: 12/8/2010 2:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.5	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/22/2011 10:32:58 AM

ADR version 1.3.0.71

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-020-SA5C-SB-7.5-8.5

Collected: 12/8/2010 10:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.5	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5C-SB-4.0-5.0

Collected: 12/9/2010 9:56:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-022-SA5C-SB-9.0-10

Collected: 12/9/2010 10:02:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	37.0		1.8	MDL	2.3	PQL	mg/Kg	J	Q, E

Sample ID: SL-029-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.2		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-034-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.87	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-035-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.89	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-036-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.88	U	0.88	MDL	1.1	PQL	mg/Kg	UJ	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/22/2011 10:32:58 AM

ADR version 1.3.0.71

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 314.0

Matrix: SO

Sample ID: SL-016-SA5C-SB-9.0-10.0

Collected: 12/8/2010 4:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	12.2	J	9.9	MDL	33.0	PQL	ug/Kg	J	Z

Sample ID: SL-029-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	30.9	J	9.8	MDL	32.8	PQL	ug/Kg	U	B

Method Category: GENCHEM

Method: 9012B

Matrix: AQ

Sample ID: EB14-SA5C-120810

Collected: 12/8/2010 12:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.0050	U	0.0050	MDL	0.010	PQL	mg/L	UJ	H

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-012-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:05:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.63	J	0.942	MDL	5.29	PQL	mg/Kg	J	Z
CALCIUM	5480		6.49	MDL	21.2	PQL	mg/Kg	J	E
POTASSIUM	3040		19.0	MDL	52.9	PQL	mg/Kg	J	Q
TIN	1.79	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.98	J	0.889	MDL	5.29	PQL	mg/Kg	J	Z

Sample ID: SL-012-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:14:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.90	J	1.07	MDL	5.99	PQL	mg/Kg	J	Z
CALCIUM	5110		7.35	MDL	24.0	PQL	mg/Kg	J	E
POTASSIUM	2440		21.6	MDL	59.9	PQL	mg/Kg	J	Q
TIN	2.13	J	1.20	MDL	12.0	PQL	mg/Kg	U	B
Zirconium	4.32	J	1.01	MDL	5.99	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/22/2011 10:32:58 AM

ADR version 1.3.0.71

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-013-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:44:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.86	J	0.938	MDL	5.27	PQL	mg/Kg	J	Z
CALCIUM	2910		6.46	MDL	21.1	PQL	mg/Kg	J	E
POTASSIUM	2250		19.0	MDL	52.7	PQL	mg/Kg	J	Q
TIN	2.68	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.48	J	0.886	MDL	5.27	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:52:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.48	J	0.929	MDL	5.22	PQL	mg/Kg	J	Z
CALCIUM	3070		6.40	MDL	20.9	PQL	mg/Kg	J	E
POTASSIUM	1940		18.8	MDL	52.2	PQL	mg/Kg	J	Q
TIN	1.78	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	0.977	J	0.877	MDL	5.22	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA5C-SB-4.0-5.0

Collected: 12/8/2010 2:33:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.53	J	0.946	MDL	5.31	PQL	mg/Kg	J	Z
CALCIUM	5110		6.51	MDL	21.2	PQL	mg/Kg	J	E
POTASSIUM	2990		19.1	MDL	53.1	PQL	mg/Kg	J	Q
TIN	2.12	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.56	J	0.892	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA5C-SB-9.0-10.0

Collected: 12/8/2010 2:40:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.75	J	0.949	MDL	5.33	PQL	mg/Kg	J	Z
CALCIUM	3440		6.54	MDL	21.3	PQL	mg/Kg	J	E
POTASSIUM	2480		19.2	MDL	53.3	PQL	mg/Kg	J	Q
TIN	2.01	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	0.933	J	0.896	MDL	5.33	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-016-SA5C-SB-4.0-5.0

Collected: 12/8/2010 4:10:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.34	J	0.966	MDL	5.43	PQL	mg/Kg	J	Z
CALCIUM	5730		6.65	MDL	21.7	PQL	mg/Kg	J	E
POTASSIUM	2810		19.5	MDL	54.3	PQL	mg/Kg	J	Q
TIN	2.23	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.58	J	0.912	MDL	5.43	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA5C-SB-9.0-10.0

Collected: 12/8/2010 4:23:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.91	J	0.932	MDL	5.24	PQL	mg/Kg	J	Z
CALCIUM	4230		6.42	MDL	21.0	PQL	mg/Kg	J	E
POTASSIUM	2560		18.9	MDL	52.4	PQL	mg/Kg	J	Q
TIN	2.34	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.78	J	0.880	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:30:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.05	J	0.944	MDL	5.31	PQL	mg/Kg	J	Z
CALCIUM	4940		6.50	MDL	21.2	PQL	mg/Kg	J	E
POTASSIUM	2870		19.1	MDL	53.1	PQL	mg/Kg	J	Q
SODIUM	105	J	39.6	MDL	106	PQL	mg/Kg	J	Z
TIN	2.17	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.61	J	0.891	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA5C-SB-4.0-5.0

Collected: 12/8/2010 9:55:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.16	J	0.980	MDL	5.51	PQL	mg/Kg	J	Z
CALCIUM	6430		6.75	MDL	22.0	PQL	mg/Kg	J	E
POTASSIUM	2820		19.8	MDL	55.1	PQL	mg/Kg	J	Q
SODIUM	100	J	41.1	MDL	110	PQL	mg/Kg	J	Z
TIN	2.12	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.94	J	0.925	MDL	5.51	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-020-SA5C-SB-7.5-8.5

Collected: 12/8/2010 10:00:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.73	J	0.956	MDL	5.37	PQL	mg/Kg	J	Z
CALCIUM	2010		6.58	MDL	21.5	PQL	mg/Kg	J	E
POTASSIUM	1680		19.3	MDL	53.7	PQL	mg/Kg	J	Q
TIN	2.05	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.52	J	0.902	MDL	5.37	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA5C-SB-4.0-5.0

Collected: 12/8/2010 11:55:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.16	J	0.923	MDL	5.19	PQL	mg/Kg	J	Z
CALCIUM	5430		6.36	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	2480		18.7	MDL	51.9	PQL	mg/Kg	J	Q
TIN	1.68	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.05	J	0.871	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA5C-SB-9.0-10.0

Collected: 12/8/2010 12:00:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.17	J	0.944	MDL	5.31	PQL	mg/Kg	J	Z
CALCIUM	7450		6.50	MDL	21.2	PQL	mg/Kg	J	E
POTASSIUM	2770		19.1	MDL	53.1	PQL	mg/Kg	J	Q
TIN	2.44	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.71	J	0.891	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5C-SB-4.0-5.0

Collected: 12/9/2010 9:56:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.80	J	0.958	MDL	5.38	PQL	mg/Kg	J	Z
CALCIUM	2110		6.60	MDL	21.5	PQL	mg/Kg	J	E
POTASSIUM	2220		19.4	MDL	53.8	PQL	mg/Kg	J	Q
TIN	2.00	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.37	J	0.904	MDL	5.38	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-022-SA5C-SB-9.0-10

Collected: 12/9/2010 10:02:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.02	J	0.992	MDL	5.57	PQL	mg/Kg	J	Z
CALCIUM	2410		6.83	MDL	22.3	PQL	mg/Kg	J	E
POTASSIUM	1800		20.1	MDL	55.7	PQL	mg/Kg	J	Q
TIN	2.49	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.42	J	0.936	MDL	5.57	PQL	mg/Kg	J	Z

Sample ID: SL-029-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:27:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.84	J	0.945	MDL	5.31	PQL	mg/Kg	J	Z
CALCIUM	4400		6.51	MDL	21.2	PQL	mg/Kg	J	E
POTASSIUM	2600		19.1	MDL	53.1	PQL	mg/Kg	J	Q
TIN	2.12	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.75	J	0.892	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-034-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.87	J	0.926	MDL	5.20	PQL	mg/Kg	J	Z
CALCIUM	3900		6.38	MDL	20.8	PQL	mg/Kg	J	E
POTASSIUM	3030		18.7	MDL	52.0	PQL	mg/Kg	J	Q
SODIUM	95.1	J	38.8	MDL	104	PQL	mg/Kg	J	Z
TIN	1.87	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.98	J	0.874	MDL	5.20	PQL	mg/Kg	J	Z

Sample ID: SL-035-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:00:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.94	J	0.967	MDL	5.43	PQL	mg/Kg	J	Z
CALCIUM	4030		6.66	MDL	21.7	PQL	mg/Kg	J	E
POTASSIUM	2240		19.6	MDL	54.3	PQL	mg/Kg	J	Q
SODIUM	105	J	40.5	MDL	109	PQL	mg/Kg	J	Z
TIN	1.63	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	4.03	J	0.913	MDL	5.43	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-036-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:45:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.38	J	0.965	MDL	5.42	PQL	mg/Kg	J	Z
CALCIUM	3500		6.65	MDL	21.7	PQL	mg/Kg	J	E
POTASSIUM	2300		19.5	MDL	54.2	PQL	mg/Kg	J	Q
SODIUM	83.6	J	40.5	MDL	108	PQL	mg/Kg	J	Z
TIN	1.96	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.09	J	0.911	MDL	5.42	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: AQ

Sample ID: EB01-SA5B-120910

Collected: 12/9/2010 12:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.00010	J	0.00008 0	MDL	0.00050	PQL	mg/L	U	B

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-012-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:05:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0635	MDL	0.212	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	5.30		0.0635	MDL	0.423	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.626		0.0169	MDL	0.106	PQL	mg/Kg	J	E
CADMIUM	0.104	J	0.0381	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	25.2		0.127	MDL	0.423	PQL	mg/Kg	J	Q, E, A
COBALT	8.00		0.0212	MDL	0.106	PQL	mg/Kg	J	E, A
COPPER	12.5		0.0698	MDL	0.423	PQL	mg/Kg	J	E, A
LEAD	8.70		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	12.8		0.106	MDL	0.423	PQL	mg/Kg	J	Q, A
SILVER	0.0279	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.417		0.0317	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	51.7		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	80.4		0.593	MDL	3.17	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-012-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:05:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.215	J	0.0423	MDL	0.423	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-012-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:05:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.393		0.0529	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-012-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:05:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	119		0.114	MDL	0.423	PQL	mg/Kg	J	E, E

Sample ID: SL-012-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:14:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.134	J	0.0733	MDL	0.244	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	6.79		0.0733	MDL	0.489	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.442		0.0196	MDL	0.122	PQL	mg/Kg	J	E
CADMIUM	0.195		0.0440	MDL	0.122	PQL	mg/Kg	J	Q
CHROMIUM	37.3		0.147	MDL	0.489	PQL	mg/Kg	J	Q, E, A
COBALT	7.59		0.0244	MDL	0.122	PQL	mg/Kg	J	E, A
COPPER	10.3		0.0807	MDL	0.489	PQL	mg/Kg	J	E, A
LEAD	5.41		0.0127	MDL	0.244	PQL	mg/Kg	J	Q, E
NICKEL	19.3		0.122	MDL	0.489	PQL	mg/Kg	J	Q, A
SILVER	0.0168	J	0.0147	MDL	0.122	PQL	mg/Kg	J	Z, Q
THALLIUM	0.254		0.0367	MDL	0.122	PQL	mg/Kg	J	Q
VANADIUM	45.5		0.0269	MDL	0.122	PQL	mg/Kg	J	Q, E
ZINC	55.6		0.685	MDL	3.67	PQL	mg/Kg	J	E, A

Sample ID: SL-012-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:14:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0888	J	0.0489	MDL	0.489	PQL	mg/Kg	J	Z, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-012-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:14:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	3.87		0.0611	MDL	0.122	PQL	mg/Kg	J	Q

Sample ID: SL-012-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:14:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	99.4		0.132	MDL	0.489	PQL	mg/Kg	J	E, E

Sample ID: SL-013-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:44:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.114	J	0.0651	MDL	0.217	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	8.17		0.0651	MDL	0.434	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.707		0.0174	MDL	0.109	PQL	mg/Kg	J	E
CADMIUM	0.170		0.0391	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	22.3		0.130	MDL	0.434	PQL	mg/Kg	J	Q, E, A
COBALT	7.27		0.0217	MDL	0.109	PQL	mg/Kg	J	E, A
COPPER	10.4		0.0717	MDL	0.434	PQL	mg/Kg	J	E, A
LEAD	8.53		0.0113	MDL	0.217	PQL	mg/Kg	J	Q, E
NICKEL	12.8		0.109	MDL	0.434	PQL	mg/Kg	J	Q, A
SILVER	0.0413	J	0.0130	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.350		0.0326	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	45.0		0.0239	MDL	0.109	PQL	mg/Kg	J	Q, E
ZINC	71.3		0.608	MDL	3.26	PQL	mg/Kg	J	E, A

Sample ID: SL-013-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:44:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.204	J	0.0434	MDL	0.434	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-013-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:44:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.824		0.0543	MDL	0.109	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-013-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:44:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	118		0.117	MDL	0.434	PQL	mg/Kg	J	E, E

Sample ID: SL-013-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:52:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0658	U	0.0658	MDL	0.219	PQL	mg/Kg	R	Q
ARSENIC	6.13		0.0658	MDL	0.439	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.567		0.0175	MDL	0.110	PQL	mg/Kg	J	E
CADMIUM	0.120		0.0395	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	18.6		0.132	MDL	0.439	PQL	mg/Kg	J	Q, E, A
COBALT	6.05		0.0219	MDL	0.110	PQL	mg/Kg	J	E, A
COPPER	9.51		0.0724	MDL	0.439	PQL	mg/Kg	J	E, A
LEAD	6.65		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	10.9		0.110	MDL	0.439	PQL	mg/Kg	J	Q, A
SILVER	0.0312	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.333		0.0329	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	39.2		0.0241	MDL	0.110	PQL	mg/Kg	J	Q, E
ZINC	61.7		0.614	MDL	3.29	PQL	mg/Kg	J	E, A

Sample ID: SL-013-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:52:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.116	J	0.0439	MDL	0.439	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-013-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:52:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.429		0.0548	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-013-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:52:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.118	MDL	0.439	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-015-SA5C-SB-4.0-5.0

Collected: 12/8/2010 2:33:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0688	J	0.0656	MDL	0.219	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	6.65		0.0656	MDL	0.438	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.843		0.0175	MDL	0.109	PQL	mg/Kg	J	E
CADMIUM	0.153		0.0394	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	34.0		0.131	MDL	0.438	PQL	mg/Kg	J	Q, E, A
COBALT	9.37		0.0219	MDL	0.109	PQL	mg/Kg	J	E, A
COPPER	11.4		0.0722	MDL	0.438	PQL	mg/Kg	J	E, A
LEAD	9.41		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	14.8		0.109	MDL	0.438	PQL	mg/Kg	J	Q, A
SILVER	0.0235	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.345		0.0328	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	68.8		0.0241	MDL	0.109	PQL	mg/Kg	J	Q, E
ZINC	76.6		0.613	MDL	3.28	PQL	mg/Kg	J	E, A

Sample ID: SL-015-SA5C-SB-4.0-5.0

Collected: 12/8/2010 2:33:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.256	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-015-SA5C-SB-4.0-5.0

Collected: 12/8/2010 2:33:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.450		0.0547	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-015-SA5C-SB-4.0-5.0

Collected: 12/8/2010 2:33:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	115		0.118	MDL	0.438	PQL	mg/Kg	J	E, E

Sample ID: SL-015-SA5C-SB-9.0-10.0

Collected: 12/8/2010 2:40:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0640	U	0.0640	MDL	0.213	PQL	mg/Kg	R	Q
ARSENIC	5.33		0.0640	MDL	0.427	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.546		0.0171	MDL	0.107	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-015-SA5C-SB-9.0-10.0

Collected: 12/8/2010 2:40:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.137		0.0384	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	18.1		0.128	MDL	0.427	PQL	mg/Kg	J	Q, E, A
COBALT	6.10		0.0213	MDL	0.107	PQL	mg/Kg	J	E, A
COPPER	8.33		0.0704	MDL	0.427	PQL	mg/Kg	J	E, A
LEAD	7.09		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, E
NICKEL	10.5		0.107	MDL	0.427	PQL	mg/Kg	J	Q, A
SILVER	0.0229	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.366		0.0320	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	36.4		0.0235	MDL	0.107	PQL	mg/Kg	J	Q, E
ZINC	78.1		0.597	MDL	3.20	PQL	mg/Kg	J	E, A

Sample ID: SL-015-SA5C-SB-9.0-10.0

Collected: 12/8/2010 2:40:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0427	MDL	0.427	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-015-SA5C-SB-9.0-10.0

Collected: 12/8/2010 2:40:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.515		0.0533	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-015-SA5C-SB-9.0-10.0

Collected: 12/8/2010 2:40:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	100		0.115	MDL	0.427	PQL	mg/Kg	J	E, E

Sample ID: SL-016-SA5C-SB-4.0-5.0

Collected: 12/8/2010 4:10:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0633	U	0.0633	MDL	0.211	PQL	mg/Kg	R	Q
ARSENIC	4.44		0.0633	MDL	0.422	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.510		0.0169	MDL	0.105	PQL	mg/Kg	J	E
CADMIUM	0.0751	J	0.0380	MDL	0.105	PQL	mg/Kg	J	Z, Q
CHROMIUM	16.8		0.127	MDL	0.422	PQL	mg/Kg	J	Q, E, A
COBALT	5.61		0.0211	MDL	0.105	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-016-SA5C-SB-4.0-5.0

Collected: 12/8/2010 4:10:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	8.21		0.0696	MDL	0.422	PQL	mg/Kg	J	E, A
LEAD	5.60		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	9.36		0.105	MDL	0.422	PQL	mg/Kg	J	Q, A
SILVER	0.0261	J	0.0127	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.269		0.0316	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	36.5		0.0232	MDL	0.105	PQL	mg/Kg	J	Q, E
ZINC	59.2		0.590	MDL	3.16	PQL	mg/Kg	J	E, A

Sample ID: SL-016-SA5C-SB-4.0-5.0

Collected: 12/8/2010 4:10:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.124	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-016-SA5C-SB-4.0-5.0

Collected: 12/8/2010 4:10:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.456		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-016-SA5C-SB-4.0-5.0

Collected: 12/8/2010 4:10:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.0		0.114	MDL	0.422	PQL	mg/Kg	J	E, E

Sample ID: SL-016-SA5C-SB-9.0-10.0

Collected: 12/8/2010 4:23:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0952	J	0.0647	MDL	0.216	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	7.33		0.0647	MDL	0.431	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.577		0.0173	MDL	0.108	PQL	mg/Kg	J	E
CADMIUM	0.198		0.0388	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	24.3		0.129	MDL	0.431	PQL	mg/Kg	J	Q, E, A
COBALT	6.83		0.0216	MDL	0.108	PQL	mg/Kg	J	E, A
COPPER	10.9		0.0712	MDL	0.431	PQL	mg/Kg	J	E, A
LEAD	7.77		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	12.8		0.108	MDL	0.431	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-016-SA5C-SB-9.0-10.0

Collected: 12/8/2010 4:23:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0334	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.364		0.0324	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	44.2		0.0237	MDL	0.108	PQL	mg/Kg	J	Q, E
ZINC	84.4		0.604	MDL	3.24	PQL	mg/Kg	J	E, A

Sample ID: SL-016-SA5C-SB-9.0-10.0

Collected: 12/8/2010 4:23:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.170	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-016-SA5C-SB-9.0-10.0

Collected: 12/8/2010 4:23:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.863		0.0539	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-016-SA5C-SB-9.0-10.0

Collected: 12/8/2010 4:23:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	110		0.116	MDL	0.431	PQL	mg/Kg	J	E, E

Sample ID: SL-017-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:30:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.140	J	0.0649	MDL	0.216	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	5.99		0.0649	MDL	0.433	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.662		0.0173	MDL	0.108	PQL	mg/Kg	J	E
CADMIUM	0.117		0.0390	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	24.2		0.130	MDL	0.433	PQL	mg/Kg	J	Q, E, A
COBALT	6.51		0.0216	MDL	0.108	PQL	mg/Kg	J	E, A
COPPER	11.0		0.0714	MDL	0.433	PQL	mg/Kg	J	E, A
LEAD	7.20		0.0113	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	13.2		0.108	MDL	0.433	PQL	mg/Kg	J	Q, A
SILVER	0.0385	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.284		0.0325	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	41.6		0.0238	MDL	0.108	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-017-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:30:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	86.8		0.606	MDL	3.25	PQL	mg/Kg	J	E, A

Sample ID: SL-017-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:30:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.190	J	0.0433	MDL	0.433	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-017-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:30:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.24		0.0541	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-017-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:30:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.117	MDL	0.433	PQL	mg/Kg	J	E, E

Sample ID: SL-020-SA5C-SB-4.0-5.0

Collected: 12/8/2010 9:55:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0642	U	0.0642	MDL	0.214	PQL	mg/Kg	R	Q
ARSENIC	4.89		0.0642	MDL	0.428	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.575		0.0171	MDL	0.107	PQL	mg/Kg	J	E
CADMIUM	0.138		0.0385	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	21.4		0.128	MDL	0.428	PQL	mg/Kg	J	Q, E, A
COBALT	6.66		0.0214	MDL	0.107	PQL	mg/Kg	J	E, A
COPPER	10.1		0.0706	MDL	0.428	PQL	mg/Kg	J	E, A
LEAD	7.74		0.0111	MDL	0.214	PQL	mg/Kg	J	Q, E
NICKEL	12.3		0.107	MDL	0.428	PQL	mg/Kg	J	Q, A
SILVER	0.0350	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.325		0.0321	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	42.2		0.0235	MDL	0.107	PQL	mg/Kg	J	Q, E
ZINC	59.6		0.599	MDL	3.21	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-020-SA5C-SB-4.0-5.0

Collected: 12/8/2010 9:55:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0983	J	0.0428	MDL	0.428	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-020-SA5C-SB-4.0-5.0

Collected: 12/8/2010 9:55:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.471		0.0535	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-020-SA5C-SB-4.0-5.0

Collected: 12/8/2010 9:55:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	105		0.116	MDL	0.428	PQL	mg/Kg	J	E, E

Sample ID: SL-020-SA5C-SB-7.5-8.5

Collected: 12/8/2010 10:00:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0882	J	0.0626	MDL	0.209	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	5.87		0.0626	MDL	0.417	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.644		0.0167	MDL	0.104	PQL	mg/Kg	J	E
CADMIUM	0.247		0.0376	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	18.3		0.125	MDL	0.417	PQL	mg/Kg	J	Q, E, A
COBALT	10.5		0.0209	MDL	0.104	PQL	mg/Kg	J	E, A
COPPER	6.92		0.0688	MDL	0.417	PQL	mg/Kg	J	E, A
LEAD	4.60		0.0108	MDL	0.209	PQL	mg/Kg	J	Q, E
NICKEL	12.4		0.104	MDL	0.417	PQL	mg/Kg	J	Q, A
SILVER	0.0607	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.251		0.0313	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	34.6		0.0229	MDL	0.104	PQL	mg/Kg	J	Q, E
ZINC	51.0		0.584	MDL	3.13	PQL	mg/Kg	J	E, A

Sample ID: SL-020-SA5C-SB-7.5-8.5

Collected: 12/8/2010 10:00:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0615	J	0.0417	MDL	0.417	PQL	mg/Kg	J	Z, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-020-SA5C-SB-7.5-8.5

Collected: 12/8/2010 10:00:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.437		0.0522	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-020-SA5C-SB-7.5-8.5

Collected: 12/8/2010 10:00:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	184		0.113	MDL	0.417	PQL	mg/Kg	J	E, E

Sample ID: SL-021-SA5C-SB-4.0-5.0

Collected: 12/8/2010 11:55:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0622	U	0.0622	MDL	0.207	PQL	mg/Kg	R	Q
ARSENIC	5.77		0.0622	MDL	0.415	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.484		0.0166	MDL	0.104	PQL	mg/Kg	J	E
CADMIUM	0.142		0.0373	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	19.9		0.124	MDL	0.415	PQL	mg/Kg	J	Q, E, A
COBALT	6.95		0.0207	MDL	0.104	PQL	mg/Kg	J	E, A
COPPER	12.8		0.0685	MDL	0.415	PQL	mg/Kg	J	E, A
LEAD	6.77		0.0108	MDL	0.207	PQL	mg/Kg	J	Q, E
NICKEL	11.0		0.104	MDL	0.415	PQL	mg/Kg	J	Q, A
SILVER	0.0297	J	0.0124	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.340		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	44.4		0.0228	MDL	0.104	PQL	mg/Kg	J	Q, E
ZINC	80.9		0.581	MDL	3.11	PQL	mg/Kg	J	E, A

Sample ID: SL-021-SA5C-SB-4.0-5.0

Collected: 12/8/2010 11:55:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.116	J	0.0415	MDL	0.415	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-021-SA5C-SB-4.0-5.0

Collected: 12/8/2010 11:55:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.555		0.0519	MDL	0.104	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-021-SA5C-SB-4.0-5.0

Collected: 12/8/2010 11:55:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.112	MDL	0.415	PQL	mg/Kg	J	E, E

Sample ID: SL-021-SA5C-SB-9.0-10.0

Collected: 12/8/2010 12:00:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0986	J	0.0643	MDL	0.214	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	5.61		0.0643	MDL	0.429	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.631		0.0171	MDL	0.107	PQL	mg/Kg	J	E
CADMIUM	0.194		0.0386	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	22.8		0.129	MDL	0.429	PQL	mg/Kg	J	Q, E, A
COBALT	6.48		0.0214	MDL	0.107	PQL	mg/Kg	J	E, A
COPPER	10.0		0.0707	MDL	0.429	PQL	mg/Kg	J	E, A
LEAD	7.51		0.0111	MDL	0.214	PQL	mg/Kg	J	Q, E
NICKEL	12.7		0.107	MDL	0.429	PQL	mg/Kg	J	Q, A
SILVER	0.0462	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.276		0.0321	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	41.1		0.0236	MDL	0.107	PQL	mg/Kg	J	Q, E
ZINC	70.7		0.600	MDL	3.21	PQL	mg/Kg	J	E, A

Sample ID: SL-021-SA5C-SB-9.0-10.0

Collected: 12/8/2010 12:00:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0429	MDL	0.429	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-021-SA5C-SB-9.0-10.0

Collected: 12/8/2010 12:00:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.570		0.0536	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-021-SA5C-SB-9.0-10.0

Collected: 12/8/2010 12:00:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.116	MDL	0.429	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-022-SA5C-SB-4.0-5.0

Collected: 12/9/2010 9:56:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0652	U	0.0652	MDL	0.217	PQL	mg/Kg	R	Q, Q, E
ARSENIC	4.17		0.0652	MDL	0.435	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.614		0.0174	MDL	0.109	PQL	mg/Kg	J	E
CADMIUM	0.141		0.0391	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	18.1		0.130	MDL	0.435	PQL	mg/Kg	J	Q, E, A
COBALT	7.13		0.0217	MDL	0.109	PQL	mg/Kg	J	E, A
COPPER	8.85		0.0717	MDL	0.435	PQL	mg/Kg	J	E, A
LEAD	5.49		0.0113	MDL	0.217	PQL	mg/Kg	J	Q, E
NICKEL	13.1		0.109	MDL	0.435	PQL	mg/Kg	J	Q, A
SILVER	0.0448	J	0.0130	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.358		0.0326	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	35.3		0.0239	MDL	0.109	PQL	mg/Kg	J	Q, E
ZINC	50.4		0.609	MDL	3.26	PQL	mg/Kg	J	E, A

Sample ID: SL-022-SA5C-SB-4.0-5.0

Collected: 12/9/2010 9:56:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0902	J	0.0435	MDL	0.435	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-022-SA5C-SB-4.0-5.0

Collected: 12/9/2010 9:56:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.549		0.0543	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-022-SA5C-SB-4.0-5.0

Collected: 12/9/2010 9:56:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	123		0.117	MDL	0.435	PQL	mg/Kg	J	E, E

Sample ID: SL-022-SA5C-SB-9.0-10

Collected: 12/9/2010 10:02:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0675	U	0.0675	MDL	0.225	PQL	mg/Kg	R	Q
ARSENIC	6.05		0.0675	MDL	0.450	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.820		0.0180	MDL	0.113	PQL	mg/Kg	J	E

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-022-SA5C-SB-9.0-10

Collected: 12/9/2010 10:02:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.150		0.0405	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	27.4		0.135	MDL	0.450	PQL	mg/Kg	J	Q, E, A
COBALT	9.00		0.0225	MDL	0.113	PQL	mg/Kg	J	E, A
COPPER	9.02		0.0743	MDL	0.450	PQL	mg/Kg	J	E, A
LEAD	7.23		0.0117	MDL	0.225	PQL	mg/Kg	J	Q, E
NICKEL	16.9		0.113	MDL	0.450	PQL	mg/Kg	J	Q, A
SILVER	0.0425	J	0.0135	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.380		0.0338	MDL	0.113	PQL	mg/Kg	J	Q
VANADIUM	52.5		0.0248	MDL	0.113	PQL	mg/Kg	J	Q, E
ZINC	62.6		0.630	MDL	3.38	PQL	mg/Kg	J	E, A

Sample ID: SL-022-SA5C-SB-9.0-10

Collected: 12/9/2010 10:02:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.116	J	0.0450	MDL	0.450	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-022-SA5C-SB-9.0-10

Collected: 12/9/2010 10:02:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.09		0.0563	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-022-SA5C-SB-9.0-10

Collected: 12/9/2010 10:02:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	130		0.122	MDL	0.450	PQL	mg/Kg	J	E, E

Sample ID: SL-029-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:27:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.112	J	0.0625	MDL	0.208	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	10.0		0.0625	MDL	0.417	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.429		0.0167	MDL	0.104	PQL	mg/Kg	J	E
CADMIUM	0.134		0.0375	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	26.1		0.125	MDL	0.417	PQL	mg/Kg	J	Q, E, A
COBALT	5.77		0.0208	MDL	0.104	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-029-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:27:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.4		0.0688	MDL	0.417	PQL	mg/Kg	J	E, A
LEAD	6.49		0.0108	MDL	0.208	PQL	mg/Kg	J	Q, E
NICKEL	13.3		0.104	MDL	0.417	PQL	mg/Kg	J	Q, A
SILVER	0.0278	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.250		0.0313	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	40.7		0.0229	MDL	0.104	PQL	mg/Kg	J	Q, E
ZINC	55.7		0.584	MDL	3.13	PQL	mg/Kg	J	E, A

Sample ID: SL-029-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:27:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.891		0.0417	MDL	0.417	PQL	mg/Kg	J	Q, E

Sample ID: SL-029-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:27:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.84		0.0521	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-029-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:27:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.5		0.113	MDL	0.417	PQL	mg/Kg	J	E, E

Sample ID: SL-034-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.138	J	0.0637	MDL	0.212	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	5.04		0.0637	MDL	0.424	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.508		0.0170	MDL	0.106	PQL	mg/Kg	J	E
CHROMIUM	23.0		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E, A
COBALT	6.55		0.0212	MDL	0.106	PQL	mg/Kg	J	E, A
COPPER	10.7		0.0700	MDL	0.424	PQL	mg/Kg	J	E, A
LEAD	7.21		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	13.7		0.106	MDL	0.424	PQL	mg/Kg	J	Q, A
SILVER	0.0315	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-034-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.314		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	38.9		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	72.8		0.594	MDL	3.18	PQL	mg/Kg	J	E, A

Sample ID: SL-034-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: REA6

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.177		0.0382	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-034-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.229	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-034-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.10		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-034-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.115	MDL	0.424	PQL	mg/Kg	J	E, E

Sample ID: SL-035-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:00:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0787	J	0.0640	MDL	0.213	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	5.94		0.0640	MDL	0.426	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.456		0.0171	MDL	0.107	PQL	mg/Kg	J	E
CADMIUM	0.164		0.0384	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	34.0		0.128	MDL	0.426	PQL	mg/Kg	J	Q, E, A
COBALT	7.16		0.0213	MDL	0.107	PQL	mg/Kg	J	E, A
COPPER	10.8		0.0704	MDL	0.426	PQL	mg/Kg	J	E, A
LEAD	5.89		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-035-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:00:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	17.7		0.107	MDL	0.426	PQL	mg/Kg	J	Q, A
SILVER	0.0195	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.262		0.0320	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	44.2		0.0235	MDL	0.107	PQL	mg/Kg	J	Q, E
ZINC	59.3		0.597	MDL	3.20	PQL	mg/Kg	J	E, A

Sample ID: SL-035-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:00:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.174	J	0.0426	MDL	0.426	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-035-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:00:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.83		0.0533	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-035-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:00:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	106		0.115	MDL	0.426	PQL	mg/Kg	J	E, E

Sample ID: SL-036-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:45:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0978	J	0.0632	MDL	0.211	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	5.16		0.0632	MDL	0.421	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.501		0.0169	MDL	0.105	PQL	mg/Kg	J	E
CADMIUM	0.163		0.0379	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	21.7		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E, A
COBALT	6.39		0.0211	MDL	0.105	PQL	mg/Kg	J	E, A
COPPER	9.76		0.0695	MDL	0.421	PQL	mg/Kg	J	E, A
LEAD	6.36		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	12.4		0.105	MDL	0.421	PQL	mg/Kg	J	Q, A
SILVER	0.0308	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.315		0.0316	MDL	0.105	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-036-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:45:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	38.5		0.0232	MDL	0.105	PQL	mg/Kg	J	Q, E
ZINC	71.2		0.590	MDL	3.16	PQL	mg/Kg	J	E, A

Sample ID: SL-036-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:45:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.128	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-036-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:45:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.16		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-036-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:45:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.114	MDL	0.421	PQL	mg/Kg	J	E, E

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-015-SA5C-SB-4.0-5.0

Collected: 12/8/2010 2:33:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5C-SB-4.0-5.0

Collected: 12/9/2010 9:56:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-035-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-036-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-013-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:44:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0048	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0072	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA5C-SB-4.0-5.0

Collected: 12/8/2010 11:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0073	J	0.0029	MDL	0.0998	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA5C-SB-9.0-10.0

Collected: 12/8/2010 12:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0070	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-029-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0041	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1625C

Matrix: AQ

Sample ID: EB14-SA5C-120810

Collected: 12/8/2010 12:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.57		0.549	MDL	1.10	PQL	ng/L	UJ	L, E, B

Method Category: SVOA

Method: 1625C

Matrix: SO

Sample ID: SL-012-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:14:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	26.8	J	20.4	MDL	40.7	PQL	ng/Kg	J	Z

Sample ID: SL-015-SA5C-SB-4.0-5.0

Collected: 12/8/2010 2:33:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	24.8	J	18.4	MDL	36.8	PQL	ng/Kg	J	Z

Sample ID: SL-015-SA5C-SB-9.0-10.0

Collected: 12/8/2010 2:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	31.3	J	18.1	MDL	36.3	PQL	ng/Kg	J	Z

Sample ID: SL-016-SA5C-SB-4.0-5.0

Collected: 12/8/2010 4:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	22.3	J	18.3	MDL	36.5	PQL	ng/Kg	J	Z

Sample ID: SL-017-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	21.8	J	18.2	MDL	36.4	PQL	ng/Kg	J	Z

Sample ID: SL-021-SA5C-SB-4.0-5.0

Collected: 12/8/2010 11:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	22.9	J	17.8	MDL	35.6	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8015M

Matrix: AQ

Sample ID: EB14-SA5C-120810

Collected: 12/8/2010 12:00:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLENE GLYCOL	10	U	10	MDL	100	PQL	mg/L	UJ	Q

Sample ID: TB-120810

Collected: 12/8/2010 4:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	20	U	20	MDL	50	PQL	ug/L	UJ	S

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: SL-013-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:44:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.48	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA5C-SB-4.0-5.0

Collected: 12/8/2010 4:10:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.53	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA5C-SB-9.0-10.0

Collected: 12/8/2010 4:23:00

Analysis Type: REA2

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	5.8	J	2.2	MDL	6.6	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA5C-SB-4.0-5.0

Collected: 12/8/2010 9:55:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.2	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA5C-SB-7.5-8.5

Collected: 12/8/2010 10:00:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.1	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: SL-021-SA5C-SB-4.0-5.0

Collected: 12/8/2010 11:55:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.48	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA5C-SB-9.0-10.0

Collected: 12/8/2010 12:00:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.63	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5C-SB-4.0-5.0

Collected: 12/9/2010 9:56:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.66	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.75	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5C-SB-9.0-10

Collected: 12/9/2010 10:02:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	Q
Propylene glycol	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	Q

Sample ID: SL-022-SA5C-SB-9.0-10

Collected: 12/9/2010 10:02:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.48	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-029-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:27:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.071	J	0.066	MDL	0.18	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-034-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.13	J	0.072	MDL	0.37	PQL	ug/Kg	J	Z, L
MIREX	0.10	J	0.072	MDL	0.37	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-012-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.75	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:14:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.1	J	0.40	MDL	2.1	PQL	ug/Kg	J	Z
AROCLOR 1260	0.81	J	0.40	MDL	2.1	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:44:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.76	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:52:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.79	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.56	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-015-SA5C-SB-9.0-10.0

Collected: 12/8/2010 2:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.68	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.65	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-016-SA5C-SB-9.0-10.0

Collected: 12/8/2010 4:23:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.6	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.62	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.79	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.89	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-021-SA5C-SB-4.0-5.0

Collected: 12/8/2010 11:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.87	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.79	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-021-SA5C-SB-9.0-10.0

Collected: 12/8/2010 12:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.6	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1254	0.78	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.64	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-035-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.58	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-036-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.51	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: AQ

Sample ID: EB01-SA5B-120910

Collected: 12/9/2010 12:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-017-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-029-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:27:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-034-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.90	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-035-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-036-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.57	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.88	U	0.88	MDL	2.7	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: AQ

Sample ID: EB01-SA5B-120910

Collected: 12/9/2010 12:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,6-DINITROTOLUENE	1	U	1	MDL	5	PQL	ug/L	UJ	L
2-NITROANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	L
2-NITROPHENOL	1	U	1	MDL	5	PQL	ug/L	UJ	L
3,3'-DICHLOROBENZIDINE	2	U	2	MDL	5	PQL	ug/L	UJ	L
4-NITROANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	L
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E
CARBAZOLE	1	U	1	MDL	5	PQL	ug/L	UJ	L
DIBENZOFURAN	1	U	1	MDL	5	PQL	ug/L	UJ	L

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-012-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	19	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:14:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	20	U	20	MDL	200	PQL	ug/Kg	UJ	L

Sample ID: SL-013-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:44:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	22	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:52:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-015-SA5C-SB-4.0-5.0

Collected: 12/8/2010 2:33:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-015-SA5C-SB-9.0-10.0

Collected: 12/8/2010 2:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-016-SA5C-SB-4.0-5.0

Collected: 12/8/2010 4:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-016-SA5C-SB-9.0-10.0

Collected: 12/8/2010 4:23:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-017-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA5C-SB-4.0-5.0

Collected: 12/8/2010 9:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-020-SA5C-SB-7.5-8.5

Collected: 12/8/2010 10:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-021-SA5C-SB-4.0-5.0

Collected: 12/8/2010 11:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-021-SA5C-SB-9.0-10.0

Collected: 12/8/2010 12:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-022-SA5C-SB-4.0-5.0

Collected: 12/9/2010 9:56:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-022-SA5C-SB-9.0-10

Collected: 12/9/2010 10:02:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-029-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:27:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-034-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-035-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	18	MDL	370	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA									
Method:	8270C			Matrix:	SO					

Sample ID: SL-036-SA5B-SS-0.0-0.5 Collected: 12/8/2010 1:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Method Category:	SVOA									
Method:	8270C SIM			Matrix:	AQ					

Sample ID: EB01-SA5B-120910 Collected: 12/9/2010 12:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.22	J	0.051	MDL	1.0	PQL	ug/L	U	B
Butylbenzylphthalate	0.077	J	0.051	MDL	1.0	PQL	ug/L	U	B
Diethylphthalate	0.090	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.26	J	0.051	MDL	1.0	PQL	ug/L	U	B
Di-n-octylphthalate	0.075	J	0.051	MDL	1.0	PQL	ug/L	U	B
NAPHTHALENE	0.032	J	0.010	MDL	0.051	PQL	ug/L	J	Z
N-NITROSODIMETHYLAMINE	0.010	U	0.010	MDL	0.051	PQL	ug/L	UJ	L

Method Category:	SVOA									
Method:	8270C SIM			Matrix:	SO					

Sample ID: SL-012-SA5C-SB-4.0-5.0 Collected: 12/9/2010 1:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.96	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.76	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	0.83	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	0.76	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.84	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA5C-SB-9.0-10.0 Collected: 12/9/2010 1:14:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	1.1	J	0.82	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.82	MDL	2.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	7.3	MDL	22	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-012-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:14:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	16	J	7.3	MDL	22	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.84	J	0.82	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.82	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:44:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:52:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.6	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	15	J	6.6	MDL	20	PQL	ug/Kg	J	Z
PHENANTHRENE	0.99	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-015-SA5C-SB-4.0-5.0

Collected: 12/8/2010 2:33:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.0	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.81	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.88	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.78	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-015-SA5C-SB-9.0-10.0

Collected: 12/8/2010 2:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.80	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-016-SA5C-SB-9.0-10.0

Collected: 12/8/2010 4:23:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.85	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.92	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	32		6.6	MDL	20	PQL	ug/Kg	U	B
Butylbenzylphthalate	8.8	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.75	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA5C-SB-4.0-5.0

Collected: 12/8/2010 9:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.80	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.87	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-butylphthalate	6.7	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	10	J	6.7	MDL	20	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-021-SA5C-SB-4.0-5.0

Collected: 12/8/2010 11:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	11	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.2	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.85	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-021-SA5C-SB-9.0-10.0

Collected: 12/8/2010 12:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.63	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	1.7	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	19	J	6.6	MDL	20	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.9	J	6.6	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.5	J	6.6	MDL	20	PQL	ug/Kg	J	Z
FLUORENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA5C-SB-9.0-10

Collected: 12/9/2010 10:02:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.9	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-029-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:27:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.94	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.2	J	6.6	MDL	20	PQL	ug/Kg	U	B
PHENANTHRENE	0.91	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-034-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.98	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.3	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.88	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.6	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-035-SA5B-SS-0.0-0.5

Collected: 12/8/2010 2:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.4	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.5	J	6.7	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	1.5	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.90	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-036-SA5B-SS-0.0-0.5

Collected: 12/8/2010 1:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.1	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.93	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	6.6	MDL	20	PQL	ug/Kg	U	B
Butylbenzylphthalate	7.9	J	6.6	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.3	J	6.6	MDL	20	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A

Matrix: AQ

Sample ID: EB14-SA5C-120810

Collected: 12/8/2010 12:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	12	J	10	MDL	50	PQL	ug/L	J	Z

Method Category: SVOA

Method: 8330A

Matrix: AQ

Sample ID: EB14-SA5C-120810

Collected: 12/8/2010 12:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
1,3-DINITROBENZENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
2,4,6-TRINITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8330A

Matrix: AQ

Sample ID: EB14-SA5C-120810

Collected: 12/8/2010 12:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DIAMINO-6-NITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
2,4-DINITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
2,6-DINITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
2-AMINO-4,6-DINITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
2-NITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
3-NITROTOLUENE	0.40	U	0.40	MDL	1.2	PQL	ug/L	UJ	S
4-AMINO-2,6-DINITROTOLUENE	0.30	U	0.30	MDL	0.60	PQL	ug/L	UJ	S
4-NITROTOLUENE	0.60	U	0.60	MDL	1.2	PQL	ug/L	UJ	S
HMX	0.65	U	0.65	MDL	2.0	PQL	ug/L	UJ	S
NITROBENZENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
Nitroglycerin	5.2	U	5.2	MDL	15	PQL	ug/L	UJ	S
PETN	6.0	U	6.0	MDL	18	PQL	ug/L	UJ	S
RDX	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
Tetryl	0.40	U	0.40	MDL	0.60	PQL	ug/L	UJ	S

Method Category: VOA

Method: 8015B

Matrix: AQ

Sample ID: EB14-SA5C-120810

Collected: 12/8/2010 12:00:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	520	J	200	MDL	1000	PQL	ug/L	J	Z

Method Category: VOA

Method: 8015B

Matrix: SO

Sample ID: SL-012-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:05:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	310	J	110	MDL	560	PQL	ug/Kg	J	Z
METHANOL	130	J	110	MDL	560	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8015B

Matrix: SO

Sample ID: SL-012-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:14:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	330	J	120	MDL	610	PQL	ug/Kg	J	Z
METHANOL	140	J	120	MDL	610	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:44:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	260	J	110	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:52:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	260	J	110	MDL	550	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-012-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:05:00

Analysis Type: RES

Dilution: 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.1	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.1	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-012-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:14:00

Analysis Type: RES

Dilution: 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.3	J	0.27	MDL	4.5	PQL	ug/Kg	U	B
TOLUENE	0.12	J	0.09	MDL	4.5	PQL	ug/Kg	U	B

Sample ID: SL-013-SA5C-SB-4.0-5.0

Collected: 12/9/2010 1:44:00

Analysis Type: RES

Dilution: 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.49	J	0.23	MDL	3.8	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-013-SA5C-SB-9.0-10.0

Collected: 12/9/2010 1:52:00

Analysis Type: RES

Dilution: 0.85

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.80	J	0.22	MDL	3.7	PQL	ug/Kg	U	B

Sample ID: SL-015-SA5C-SB-4.0-5.0

Collected: 12/8/2010 2:33:00

Analysis Type: RES

Dilution: 0.8

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.44	J	0.11	MDL	3.5	PQL	ug/Kg	J	Z
TOLUENE	0.15	J	0.07	MDL	3.5	PQL	ug/Kg	U	B

Sample ID: SL-015-SA5C-SB-9.0-10.0

Collected: 12/8/2010 2:40:00

Analysis Type: RES

Dilution: 1.03

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.2	J	0.27	MDL	4.5	PQL	ug/Kg	U	B
TOLUENE	0.17	J	0.09	MDL	4.5	PQL	ug/Kg	U	B

Sample ID: SL-016-SA5C-SB-4.0-5.0

Collected: 12/8/2010 4:10:00

Analysis Type: RES

Dilution: 0.82

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.15	J	0.11	MDL	3.6	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	3.8		0.21	MDL	3.6	PQL	ug/Kg	U	B
TOLUENE	0.13	J	0.07	MDL	3.6	PQL	ug/Kg	U	B

Sample ID: SL-016-SA5C-SB-9.0-10.0

Collected: 12/8/2010 4:23:00

Analysis Type: RES

Dilution: 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	3.0	J	1.2	MDL	7.8	PQL	ug/Kg	J	Z
CHLOROFORM	0.16	J	0.12	MDL	3.9	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	5.5		0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.14	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-017-SA5B-SS-0.0-0.5

Collected: 12/8/2010 3:30:00

Analysis Type: RES

Dilution: 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.59	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.08	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-020-SA5C-SB-4.0-5.0

Collected: 12/8/2010 9:55:00

Analysis Type: RES

Dilution: 0.8

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.6	J	0.21	MDL	3.6	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.07	MDL	3.6	PQL	ug/Kg	U	B

Sample ID: SL-020-SA5C-SB-7.5-8.5

Collected: 12/8/2010 10:00:00

Analysis Type: RES

Dilution: 0.77

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.72	J	0.20	MDL	3.4	PQL	ug/Kg	U	B
TOLUENE	0.13	J	0.07	MDL	3.4	PQL	ug/Kg	U	B

Sample ID: SL-021-SA5C-SB-4.0-5.0

Collected: 12/8/2010 11:55:00

Analysis Type: RES

Dilution: 0.83

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.11	J	0.11	MDL	3.5	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	4.5		0.21	MDL	3.5	PQL	ug/Kg	U	B
TOLUENE	0.1	J	0.07	MDL	3.5	PQL	ug/Kg	U	B

Sample ID: SL-021-SA5C-SB-9.0-10.0

Collected: 12/8/2010 12:00:00

Analysis Type: RES

Dilution: 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.9	J	0.23	MDL	3.8	PQL	ug/Kg	U	B
TOLUENE	0.14	J	0.08	MDL	3.8	PQL	ug/Kg	U	B

Sample ID: SL-022-SA5C-SB-4.0-5.0

Collected: 12/9/2010 9:56:00

Analysis Type: RES

Dilution: 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.68	J	0.26	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-022-SA5C-SB-9.0-10

Collected: 12/9/2010 10:02:00

Analysis Type: RES

Dilution: 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.5	J	0.23	MDL	3.9	PQL	ug/Kg	U	B

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE033

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE033

EDD Filename: PrepDE033_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 9012B Preparation Method: 3550B
Matrix: AQ

Sample ID	Type	Actual	Criteria	Units	Flag
EB14-SA5C-120810 (RES)	Sampling To Analysis	19.00	14.00	DAYS	J(all detects) UJ(all non-detects)

Method: 9040B Preparation Method: 3550B
Matrix: AQ

Sample ID	Type	Actual	Criteria	Units	Flag
EB01-SA5B-120910 (RES)	Sampling To Analysis	154.00	48.00	HOURS	J(all detects) R(all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA34B261603	12/21/2010 4:03:00 PM	N-NITROSODIMETHYLAMINE	0.696 ng/L	EB14-SA5C-120810

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB14-SA5C-120810(RES)	N-NITROSODIMETHYLAMINE	1.57 ng/L	1.57U ng/L

Method: 314.0

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
B0356B271414A	12/27/2010 2:14:00 PM	PERCHLORATE	14.6 ug/Kg	SL-017-SA5B-SS-0.0-0.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-029-SA5B-SS-0.0-0.5(RES)	PERCHLORATE	30.9 ug/Kg	30.9U ug/Kg

Method: 6010B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34908BB220421	12/16/2010 4:21:00 AM	PHOSPHORUS TIN	0.649 mg/Kg 1.42 mg/Kg	SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-012-SA5C-SB-4.0-5.0(REA2)	TIN	1.79 mg/Kg	1.79U mg/Kg
SL-012-SA5C-SB-9.0-10.0(REA2)	TIN	2.13 mg/Kg	2.13U mg/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-013-SA5C-SB-4.0-5.0(REA2)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-013-SA5C-SB-9.0-10.0(REA2)	TIN	1.78 mg/Kg	1.78U mg/Kg
SL-015-SA5C-SB-4.0-5.0(REA2)	TIN	2.12 mg/Kg	2.12U mg/Kg
SL-015-SA5C-SB-9.0-10.0(REA2)	TIN	2.01 mg/Kg	2.01U mg/Kg
SL-016-SA5C-SB-4.0-5.0(REA2)	TIN	2.23 mg/Kg	2.23U mg/Kg
SL-016-SA5C-SB-9.0-10.0(REA2)	TIN	2.34 mg/Kg	2.34U mg/Kg
SL-017-SA5B-SS-0.0-0.5(REA2)	TIN	2.17 mg/Kg	2.17U mg/Kg
SL-020-SA5C-SB-4.0-5.0(REA2)	TIN	2.12 mg/Kg	2.12U mg/Kg
SL-020-SA5C-SB-7.5-8.5(REA2)	TIN	2.05 mg/Kg	2.05U mg/Kg
SL-021-SA5C-SB-4.0-5.0(REA2)	TIN	1.68 mg/Kg	1.68U mg/Kg
SL-021-SA5C-SB-9.0-10.0(REA2)	TIN	2.44 mg/Kg	2.44U mg/Kg
SL-022-SA5C-SB-4.0-5.0(REA2)	TIN	2.00 mg/Kg	2.00U mg/Kg
SL-022-SA5C-SB-9.0-10.0(REA2)	TIN	2.49 mg/Kg	2.49U mg/Kg
SL-029-SA5B-SS-0.0-0.5(REA2)	TIN	2.12 mg/Kg	2.12U mg/Kg
SL-034-SA5B-SS-0.0-0.5(REA2)	TIN	1.87 mg/Kg	1.87U mg/Kg
SL-035-SA5B-SS-0.0-0.5(REA2)	TIN	1.63 mg/Kg	1.63U mg/Kg
SL-036-SA5B-SS-0.0-0.5(REA2)	TIN	1.96 mg/Kg	1.96U mg/Kg

Method: 6020

Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34750CB220020A	12/15/2010 12:20:00 AM	ZINC	0.0051 mg/L	EB01-SA5B-120910

Method Blank Outlier Report

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34926BB221455A	12/17/2010 2:55:00 PM	COPPER	0.334 mg/Kg	SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB15B210928A	12/14/2010 9:28:00 AM	METHYLENE CHLORIDE TOLUENE	1.0 ug/Kg 0.11 ug/Kg	SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-012-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	4.0U ug/Kg
SL-012-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.1 ug/Kg	4.0U ug/Kg
SL-012-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	2.3 ug/Kg	4.5U ug/Kg
SL-012-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.12 ug/Kg	4.5U ug/Kg
SL-013-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.49 ug/Kg	3.8U ug/Kg
SL-013-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	0.80 ug/Kg	3.7U ug/Kg
SL-015-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.15 ug/Kg	3.5U ug/Kg
SL-015-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	2.2 ug/Kg	4.5U ug/Kg
SL-015-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.17 ug/Kg	4.5U ug/Kg
SL-016-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	3.8 ug/Kg	3.8U ug/Kg
SL-016-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.13 ug/Kg	3.6U ug/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/14/2011 3:03:00 PM

ADR version 1.3.0.71

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Method Blank Outlier Report

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-016-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	5.5 ug/Kg	5.5U ug/Kg
SL-016-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.14 ug/Kg	3.9U ug/Kg
SL-017-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	0.59 ug/Kg	4.0U ug/Kg
SL-017-SA5B-SS-0.0-0.5(RES)	TOLUENE	0.08 ug/Kg	4.0U ug/Kg
SL-020-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.6 ug/Kg	3.6U ug/Kg
SL-020-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.15 ug/Kg	3.6U ug/Kg
SL-020-SA5C-SB-7.5-8.5(RES)	METHYLENE CHLORIDE	0.72 ug/Kg	3.4U ug/Kg
SL-020-SA5C-SB-7.5-8.5(RES)	TOLUENE	0.13 ug/Kg	3.4U ug/Kg
SL-021-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	4.5 ug/Kg	4.5U ug/Kg
SL-021-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.1 ug/Kg	3.5U ug/Kg
SL-021-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	2.9 ug/Kg	3.8U ug/Kg
SL-021-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.14 ug/Kg	3.8U ug/Kg
SL-022-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.68 ug/Kg	4.4U ug/Kg
SL-022-SA5C-SB-9.0-10(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	3.9U ug/Kg

Method: 8270C SIM

Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWI34B260739	12/15/2010 7:39:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Butylbenzylphthalate Di-n-butylphthalate Di-n-octylphthalate	0.086 ug/L 0.074 ug/L 0.16 ug/L 0.076 ug/L	EB01-SA5B-120910

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB01-SA5B-120910(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.22 ug/L	1.0U ug/L
EB01-SA5B-120910(RES)	Butylbenzylphthalate	0.077 ug/L	1.0U ug/L
EB01-SA5B-120910(RES)	Di-n-butylphthalate	0.26 ug/L	1.0U ug/L
EB01-SA5B-120910(RES)	Di-n-octylphthalate	0.075 ug/L	1.0U ug/L

Method Blank Outlier Report

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLF34B261204	12/20/2010 12:04:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	6.5 ug/Kg	SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-012-SA5C-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	11 ug/Kg	22U ug/Kg
SL-016-SA5C-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	32 ug/Kg	32U ug/Kg
SL-022-SA5C-SB-9.0-10(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	16 ug/Kg	21U ug/Kg
SL-029-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.2 ug/Kg	20U ug/Kg
SL-036-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	19 ug/Kg	20U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
EB14-SA5C-120810MS EB14-SA5C-120810MSD (EB14-SA5C-120810)	ETHYLENE GLYCOL	85	80	89.00-125.00	-	ETHYLENE GLYCOL	J(all detects) UJ(all non-detects)

Method: 8015B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-022-SA5C-SB-9.0-10MSD (SL-022-SA5C-SB-9.0-10)	METHANOL	-	-	45.00-136.00	25 (20.00)	METHANOL	J (all detects)

Method: 8015M

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-022-SA5C-SB-9.0-10MS SL-022-SA5C-SB-9.0-10MSD (SL-022-SA5C-SB-9.0-10)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	18 57 50	27 62 52	59.00-109.00 63.00-107.00 63.00-107.00	40 (20.00) - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)
SL-017-SA5B-SS-0.0-0.5MS SL-017-SA5B-SS-0.0-0.5MSD (SL-017-SA5B-SS-0.0-0.5)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	0 -121 -222 -644 0	0 -2 895 1920 0	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	- 85 (20.00) 148 (20.00) 143 (20.00) -	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	No Qual, No sample analysis associated

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA5B-SS-0.0-0.5MS SL-017-SA5B-SS-0.0-0.5MSD (SL-017-SA5B-SS-0.0-0.5)	DICAMBA	124	136	33.00-120.00	-	DICAMBA	J(all detects)

Method: 8015M

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA5B-SS-0.0-0.5MS SL-017-SA5B-SS-0.0-0.5MSD (SL-017-SA5B-SS-0.0-0.5)	EFH (C21-C30) EFH (C30-C40)	-37 224	-208 -351	49.00-123.00 49.00-123.00	35 (20.00) 45 (20.00)	EFH (C21-C30) EFH (C30-C40)	No Qual, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA5B-SS-0.0-0.5MS SL-017-SA5B-SS-0.0-0.5MSD (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	CADMIUM CHROMIUM LEAD NICKEL SILVER THALLIUM VANADIUM	127 128 - - 127 - -	149 152 127 129 139 144 149	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - -	CADMIUM CHROMIUM LEAD NICKEL SILVER THALLIUM VANADIUM	J(all detects)
SL-017-SA5B-SS-0.0-0.5MS SL-017-SA5B-SS-0.0-0.5MSD (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	ANTIMONY ZINC	42 -154	21 -45	75.00-125.00 75.00-125.00	52 (20.00) -	ANTIMONY ZINC	J(all detects) R(all non-detects) Zn No Qual, >4x
SL-017-SA5B-SS-0.0-0.5MS (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	ARSENIC	65	-	75.00-125.00	-	ARSENIC	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA5B-SS-0.0-0.5MSD (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	SELENIUM	-	135	75.00-125.00	37 (20.00)	SELENIUM	J(all detects) UJ(all non-detects)
SL-017-SA5B-SS-0.0-0.5MSD (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	MOLYBDENUM	-	135	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-017-SA5B-SS-0.0-0.5MS SL-017-SA5B-SS-0.0-0.5MSD (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	BARIUM	-19	464	75.00-125.00	38 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA5B-SS-0.0-0.5MS SL-017-SA5B-SS-0.0-0.5MSD (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	ALUMINUM	735	1377	75.00-125.00	-	ALUMINUM	No Qual, >4x
SL-017-SA5B-SS-0.0-0.5MS SL-017-SA5B-SS-0.0-0.5MSD (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	CALCIUM IRON MAGNESIUM MANGANESE	-122 -1091 -53 29	283 2293 288 66	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	33 (20.00) - - -	CALCIUM IRON MAGNESIUM MANGANESE	J(all detects) UJ(all non-detects) No Qual %R, >4x
SL-017-SA5B-SS-0.0-0.5MS (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	PHOSPHORUS POTASSIUM	40 71	- -	75.00-125.00 75.00-125.00	- -	PHOSPHORUS POTASSIUM	J(all detects) UJ(all non-detects) P No Qual, >4x

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA5B-SS-0.0-0.5MSD (SL-017-SA5B-SS-0.0-0.5)	Di-n-octylphthalate	-	202	40.00-192.00	-	Di-n-octylphthalate	J(all detects)

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA5B-SS-0.0-0.5MS SL-017-SA5B-SS-0.0-0.5MSD (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	TITANIUM	327	294	75.00-125.00	-	TITANIUM	No Qual, >4x

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-029-SA5B-SS-0.0-0.5MS (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	FLUORIDE	68	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-017-SA5B-SS-0.0-0.5DUP (SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0)	FLUORIDE	28	20.00	No Qual OK by difference

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-017-SA5B-SS-0.0-0.5DUP (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	BORON	28	20.00	No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-017-SA5B-SS-0.0-0.5DUP	ANTIMONY	50	20.00	J(all detects) UJ(all non-detects) Sb, Ag, TI No Qual OK by difference
(SL-012-SA5C-SB-4.0-5.0	ARSENIC	32	20.00	
SL-012-SA5C-SB-9.0-10.0	BARIUM	26	20.00	
SL-013-SA5C-SB-4.0-5.0	BERYLLIUM	0.23	0.22 mg/Kg	
SL-013-SA5C-SB-9.0-10.0	CHROMIUM	26	20.00	
SL-015-SA5C-SB-4.0-5.0	COBALT	24	20.00	
SL-015-SA5C-SB-9.0-10.0	COPPER	28	20.00	
SL-016-SA5C-SB-4.0-5.0	LEAD	25	20.00	
SL-016-SA5C-SB-9.0-10.0	SILVER	58	20.00	
SL-017-SA5B-SS-0.0-0.5	THALLIUM	30	20.00	
SL-020-SA5C-SB-4.0-5.0	VANADIUM	29	20.00	
SL-020-SA5C-SB-7.5-8.5	ZINC	40	20.00	
SL-021-SA5C-SB-4.0-5.0				
SL-021-SA5C-SB-9.0-10.0				
SL-022-SA5C-SB-4.0-5.0				
SL-022-SA5C-SB-9.0-10.0				
SL-029-SA5B-SS-0.0-0.5				
SL-034-SA5B-SS-0.0-0.5				
SL-035-SA5B-SS-0.0-0.5				
SL-036-SA5B-SS-0.0-0.5)				

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-017-SA5B-SS-0.0-0.5DUP	HEXAVALENT CHROMIUM	200	20.00	No Qual OK by difference
(SL-012-SA5C-SB-4.0-5.0				
SL-012-SA5C-SB-9.0-10.0				
SL-013-SA5C-SB-4.0-5.0				
SL-013-SA5C-SB-9.0-10.0				
SL-015-SA5C-SB-4.0-5.0				
SL-015-SA5C-SB-9.0-10.0				
SL-016-SA5C-SB-4.0-5.0				
SL-016-SA5C-SB-9.0-10.0				
SL-017-SA5B-SS-0.0-0.5				
SL-020-SA5C-SB-4.0-5.0				
SL-020-SA5C-SB-7.5-8.5				
SL-021-SA5C-SB-4.0-5.0				
SL-021-SA5C-SB-9.0-10.0				
SL-022-SA5C-SB-4.0-5.0				
SL-022-SA5C-SB-9.0-10.0				
SL-029-SA5B-SS-0.0-0.5				
SL-034-SA5B-SS-0.0-0.5				
SL-035-SA5B-SS-0.0-0.5				
SL-036-SA5B-SS-0.0-0.5)				

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-017-SA5B-SS-0.0-0.5DUP (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	MERCURY	48	20.00	No Qual OK by difference

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-029-SA5B-SS-0.0-0.5DUP (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	FLUORIDE	2.9	2.2 mg/Kg	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03489AY241833A (EB01-SA5B-120910)	DINOSEB	-	-	32.00-91.00	42 (30.00)	DINOSEB	J (all detects) UJ (all non-detects)

Method: 1625C

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WALCSY261637 (EB14-SA5C-120810)	N-NITROSODIMETHYLAMINE	-	60	70.00-130.00	47 (30.00)	N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Method: 8270C

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WELCSQ260519 P7WELCSY260545 (EB01-SA5B-120910)	2,6-DINITROTOLUENE 2-NITROANILINE 2-NITROPHENOL 3,3'-DICHLOROBENZIDINE 4-NITROANILINE BENZOIC ACID CARBAZOLE DIBENZOFURAN	83 76 77 44 58 - 76 79	84 80 81 - - - 79 82	85.00-115.00 83.00-116.00 86.00-120.00 49.00-111.00 59.00-100.00 10.00-69.00 81.00-114.00 83.00-108.00	- - - - - 39 (30.00) - -	2,6-DINITROTOLUENE 2-NITROANILINE 2-NITROPHENOL 3,3'-DICHLOROBENZIDINE 4-NITROANILINE BENZOIC ACID CARBAZOLE DIBENZOFURAN	J(all detects) UJ(all non-detects)

Method: 8270C SIM

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WILCSQ260813 P7WILCSY260850 (EB01-SA5B-120910)	N-NITROSODIMETHYLAMINE	67	68	70.00-130.00	-	N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03494AQ242201A (SL-017-SA5B-SS-0.0-0.5 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	DINOSEB	7	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

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Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: PrepDE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03501AQ241924A (SL -017-SA5B-SS-0.0-0.5 SL -029-SA5B-SS-0.0-0.5 SL -034-SA5B-SS-0.0-0.5 SL -035-SA5B-SS-0.0-0.5 SL -036-SA5B-SS-0.0-0.5)	4,4'-DDT METHOXYCHLOR	134 141	- -	54.00-130.00 59.00-125.00	- -	4,4'-DDT METHOXYCHLOR	J(all detects)

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8LGLCSQ260831 (SL -012-SA5C-SB-4.0-5.0 SL -012-SA5C-SB-9.0-10.0 SL -013-SA5C-SB-4.0-5.0 SL -013-SA5C-SB-9.0-10.0 SL -015-SA5C-SB-4.0-5.0 SL -015-SA5C-SB-9.0-10.0 SL -016-SA5C-SB-4.0-5.0 SL -016-SA5C-SB-9.0-10.0 SL -017-SA5B-SS-0.0-0.5 SL -020-SA5C-SB-4.0-5.0 SL -020-SA5C-SB-7.5-8.5 SL -021-SA5C-SB-4.0-5.0 SL -021-SA5C-SB-9.0-10.0 SL -022-SA5C-SB-4.0-5.0 SL -022-SA5C-SB-9.0-10.0 SL -029-SA5B-SS-0.0-0.5 SL -034-SA5B-SS-0.0-0.5 SL -035-SA5B-SS-0.0-0.5 SL -036-SA5B-SS-0.0-0.5)	BIS(2-CHLOROISOPROPYL) ET	58	-	68.00-131.00	-	BIS(2-CHLOROISOPROPYL) E	J(all detects) UJ(all non-detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P34926BQ221458A (SL -012-SA5C-SB-4.0-5.0 SL -012-SA5C-SB-9.0-10.0 SL -013-SA5C-SB-4.0-5.0 SL -013-SA5C-SB-9.0-10.0 SL -015-SA5C-SB-4.0-5.0 SL -015-SA5C-SB-9.0-10.0 SL -016-SA5C-SB-4.0-5.0 SL -016-SA5C-SB-9.0-10.0 SL -017-SA5B-SS-0.0-0.5 SL -020-SA5C-SB-4.0-5.0 SL -020-SA5C-SB-7.5-8.5 SL -021-SA5C-SB-4.0-5.0 SL -021-SA5C-SB-9.0-10.0 SL -022-SA5C-SB-4.0-5.0 SL -022-SA5C-SB-9.0-10.0 SL -029-SA5B-SS-0.0-0.5 SL -034-SA5B-SS-0.0-0.5 SL -035-SA5B-SS-0.0-0.5 SL -036-SA5B-SS-0.0-0.5)	ANTIMONY	61	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Surrogate Outlier Report

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015B

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-015-SA5C-SB-4.0-5.0	n-Triacontane-d62	192	50.00-150.00	All Target Analytes	J(all detects)
SL-015-SA5C-SB-9.0-10.0	n-Triacontane-d62	197	50.00-150.00	All Target Analytes	J(all detects)
SL-016-SA5C-SB-4.0-5.0	n-Triacontane-d62	195	50.00-150.00	All Target Analytes	J(all detects)

Method: 8015M

Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
TB-120810	TRIFLUOROTOLUENE (FID)	75	77.00-119.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8330A

Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB14-SA5C-120810	2-NITRO-M-XYLENE	63	75.00-120.00	All Target Analytes	J (all detects) UJ (all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB01-SA5B-120910	SILVER	J	0.00010	0.00050	PQL	mg/L	J (all detects)

Method: 8015B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB14-SA5C-120810	ETHANOL	J	520	1000	PQL	ug/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB01-SA5B-120910	BIS(2-ETHYLHEXYL)PHthalate	J	0.22	1.0	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.077	1.0	PQL	ug/L	
	Diethylphthalate	J	0.090	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.26	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.075	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.032	0.051	PQL	ug/L	

Method: 8315A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB14-SA5C-120810	FORMALDEHYDE	J	12	50	PQL	ug/L	J (all detects)

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-9.0-10.0	N-NITROSODIMETHYLAMINE	J	26.8	40.7	PQL	ng/Kg	J (all detects)
SL-015-SA5C-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	24.8	36.8	PQL	ng/Kg	J (all detects)
SL-015-SA5C-SB-9.0-10.0	N-NITROSODIMETHYLAMINE	J	31.3	36.3	PQL	ng/Kg	J (all detects)
SL-016-SA5C-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	22.3	36.5	PQL	ng/Kg	J (all detects)
SL-017-SA5B-SS-0.0-0.5	N-NITROSODIMETHYLAMINE	J	21.8	36.4	PQL	ng/Kg	J (all detects)
SL-021-SA5C-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	22.9	35.6	PQL	ng/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-9.0-10.0	Nitrate-NO3	J	1.5	1.8	PQL	mg/Kg	J (all detects)
SL-013-SA5C-SB-9.0-10.0	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)
SL-015-SA5C-SB-9.0-10.0	Nitrate-NO3	J	1.5	1.6	PQL	mg/Kg	J (all detects)
SL-020-SA5C-SB-7.5-8.5	Nitrate-NO3	J	1.5	1.6	PQL	mg/Kg	J (all detects)

Method: 314.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA5C-SB-9.0-10.0	PERCHLORATE	J	12.2	33.0	PQL	ug/Kg	J (all detects)
SL-029-SA5B-SS-0.0-0.5	PERCHLORATE	J	30.9	32.8	PQL	ug/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-4.0-5.0	BORON	J	2.63	5.29	PQL	mg/Kg	J (all detects)
	TIN	J	1.79	10.6	PQL	mg/Kg	
	Zirconium	J	1.98	5.29	PQL	mg/Kg	
SL-012-SA5C-SB-9.0-10.0	BORON	J	3.90	5.99	PQL	mg/Kg	J (all detects)
	TIN	J	2.13	12.0	PQL	mg/Kg	
	Zirconium	J	4.32	5.99	PQL	mg/Kg	
SL-013-SA5C-SB-4.0-5.0	BORON	J	2.86	5.27	PQL	mg/Kg	J (all detects)
	TIN	J	2.68	10.5	PQL	mg/Kg	
	Zirconium	J	1.48	5.27	PQL	mg/Kg	
SL-013-SA5C-SB-9.0-10.0	BORON	J	2.48	5.22	PQL	mg/Kg	J (all detects)
	TIN	J	1.78	10.4	PQL	mg/Kg	
	Zirconium	J	0.977	5.22	PQL	mg/Kg	
SL-015-SA5C-SB-4.0-5.0	BORON	J	2.53	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	2.12	10.6	PQL	mg/Kg	
	Zirconium	J	1.56	5.31	PQL	mg/Kg	
SL-015-SA5C-SB-9.0-10.0	BORON	J	2.75	5.33	PQL	mg/Kg	J (all detects)
	TIN	J	2.01	10.7	PQL	mg/Kg	
	Zirconium	J	0.933	5.33	PQL	mg/Kg	
SL-016-SA5C-SB-4.0-5.0	BORON	J	2.34	5.43	PQL	mg/Kg	J (all detects)
	TIN	J	2.23	10.9	PQL	mg/Kg	
	Zirconium	J	1.58	5.43	PQL	mg/Kg	
SL-016-SA5C-SB-9.0-10.0	BORON	J	2.91	5.24	PQL	mg/Kg	J (all detects)
	TIN	J	2.34	10.5	PQL	mg/Kg	
	Zirconium	J	1.78	5.24	PQL	mg/Kg	
SL-017-SA5B-SS-0.0-0.5	BORON	J	4.05	5.31	PQL	mg/Kg	J (all detects)
	SODIUM	J	105	106	PQL	mg/Kg	
	TIN	J	2.17	10.6	PQL	mg/Kg	
	Zirconium	J	2.61	5.31	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA5C-SB-4.0-5.0	BORON	J	2.16	5.51	PQL	mg/Kg	J (all detects)
	SODIUM	J	100	110	PQL	mg/Kg	
	TIN	J	2.12	11.0	PQL	mg/Kg	
	Zirconium	J	1.94	5.51	PQL	mg/Kg	
SL-020-SA5C-SB-7.5-8.5	BORON	J	2.73	5.37	PQL	mg/Kg	J (all detects)
	TIN	J	2.05	10.7	PQL	mg/Kg	
	Zirconium	J	1.52	5.37	PQL	mg/Kg	
SL-021-SA5C-SB-4.0-5.0	BORON	J	2.16	5.19	PQL	mg/Kg	J (all detects)
	TIN	J	1.68	10.4	PQL	mg/Kg	
	Zirconium	J	1.05	5.19	PQL	mg/Kg	
SL-021-SA5C-SB-9.0-10.0	BORON	J	2.17	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	2.44	10.6	PQL	mg/Kg	
	Zirconium	J	1.71	5.31	PQL	mg/Kg	
SL-022-SA5C-SB-4.0-5.0	BORON	J	1.80	5.38	PQL	mg/Kg	J (all detects)
	TIN	J	2.00	10.8	PQL	mg/Kg	
	Zirconium	J	2.37	5.38	PQL	mg/Kg	
SL-022-SA5C-SB-9.0-10	BORON	J	2.02	5.57	PQL	mg/Kg	J (all detects)
	TIN	J	2.49	11.1	PQL	mg/Kg	
	Zirconium	J	2.42	5.57	PQL	mg/Kg	
SL-029-SA5B-SS-0.0-0.5	BORON	J	3.84	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	2.12	10.6	PQL	mg/Kg	
	Zirconium	J	2.75	5.31	PQL	mg/Kg	
SL-034-SA5B-SS-0.0-0.5	BORON	J	3.87	5.20	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.1	104	PQL	mg/Kg	
	TIN	J	1.87	10.4	PQL	mg/Kg	
	Zirconium	J	1.98	5.20	PQL	mg/Kg	
SL-035-SA5B-SS-0.0-0.5	BORON	J	3.94	5.43	PQL	mg/Kg	J (all detects)
	SODIUM	J	105	109	PQL	mg/Kg	
	TIN	J	1.63	10.9	PQL	mg/Kg	
	Zirconium	J	4.03	5.43	PQL	mg/Kg	
SL-036-SA5B-SS-0.0-0.5	BORON	J	3.38	5.42	PQL	mg/Kg	J (all detects)
	SODIUM	J	83.6	108	PQL	mg/Kg	
	TIN	J	1.96	10.8	PQL	mg/Kg	
	Zirconium	J	2.09	5.42	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-4.0-5.0	ANTIMONY	J	0.102	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.104	0.106	PQL	mg/Kg	
	SELENIUM	J	0.215	0.423	PQL	mg/Kg	
	SILVER	J	0.0279	0.106	PQL	mg/Kg	
SL-012-SA5C-SB-9.0-10.0	ANTIMONY	J	0.134	0.244	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0888	0.489	PQL	mg/Kg	
	SILVER	J	0.0168	0.122	PQL	mg/Kg	
SL-013-SA5C-SB-4.0-5.0	ANTIMONY	J	0.114	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.204	0.434	PQL	mg/Kg	
	SILVER	J	0.0413	0.109	PQL	mg/Kg	
SL-013-SA5C-SB-9.0-10.0	SELENIUM	J	0.116	0.439	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0312	0.110	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA5C-SB-4.0-5.0	ANTIMONY	J	0.0688	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.256	0.438	PQL	mg/Kg	
	SILVER	J	0.0235	0.109	PQL	mg/Kg	
SL-015-SA5C-SB-9.0-10.0	SELENIUM	J	0.115	0.427	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0229	0.107	PQL	mg/Kg	
SL-016-SA5C-SB-4.0-5.0	CADMIUM	J	0.0751	0.105	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.124	0.422	PQL	mg/Kg	
	SILVER	J	0.0261	0.105	PQL	mg/Kg	
SL-016-SA5C-SB-9.0-10.0	ANTIMONY	J	0.0952	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.170	0.431	PQL	mg/Kg	
	SILVER	J	0.0334	0.108	PQL	mg/Kg	
SL-017-SA5B-SS-0.0-0.5	ANTIMONY	J	0.140	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.190	0.433	PQL	mg/Kg	
	SILVER	J	0.0385	0.108	PQL	mg/Kg	
SL-020-SA5C-SB-4.0-5.0	SELENIUM	J	0.0983	0.428	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0350	0.107	PQL	mg/Kg	
SL-020-SA5C-SB-7.5-8.5	ANTIMONY	J	0.0882	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0615	0.417	PQL	mg/Kg	
	SILVER	J	0.0607	0.104	PQL	mg/Kg	
SL-021-SA5C-SB-4.0-5.0	SELENIUM	J	0.116	0.415	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0297	0.104	PQL	mg/Kg	
SL-021-SA5C-SB-9.0-10.0	ANTIMONY	J	0.0986	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.115	0.429	PQL	mg/Kg	
	SILVER	J	0.0462	0.107	PQL	mg/Kg	
SL-022-SA5C-SB-4.0-5.0	SELENIUM	J	0.0902	0.435	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0448	0.109	PQL	mg/Kg	
SL-022-SA5C-SB-9.0-10	SELENIUM	J	0.116	0.450	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0425	0.113	PQL	mg/Kg	
SL-029-SA5B-SS-0.0-0.5	ANTIMONY	J	0.112	0.208	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0278	0.104	PQL	mg/Kg	
SL-034-SA5B-SS-0.0-0.5	ANTIMONY	J	0.138	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.229	0.424	PQL	mg/Kg	
	SILVER	J	0.0315	0.106	PQL	mg/Kg	
SL-035-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0787	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.174	0.426	PQL	mg/Kg	
	SILVER	J	0.0195	0.107	PQL	mg/Kg	
SL-036-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0978	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.128	0.421	PQL	mg/Kg	
	SILVER	J	0.0308	0.105	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-022-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.37	1.1	PQL	mg/Kg	J (all detects)
SL-035-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-036-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.33	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA5C-SB-4.0-5.0	MERCURY	J	0.0048	0.107	PQL	mg/Kg	J (all detects)
SL-017-SA5B-SS-0.0-0.5	MERCURY	J	0.0072	0.107	PQL	mg/Kg	J (all detects)
SL-021-SA5C-SB-4.0-5.0	MERCURY	J	0.0073	0.0998	PQL	mg/Kg	J (all detects)
SL-021-SA5C-SB-9.0-10.0	MERCURY	J	0.0070	0.102	PQL	mg/Kg	J (all detects)
SL-029-SA5B-SS-0.0-0.5	MERCURY	J	0.0041	0.101	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-4.0-5.0	ETHANOL	J	310	560	PQL	ug/Kg	J (all detects)
	METHANOL	J	130	560	PQL	ug/Kg	
SL-012-SA5C-SB-9.0-10.0	ETHANOL	J	330	610	PQL	ug/Kg	J (all detects)
	METHANOL	J	140	610	PQL	ug/Kg	
SL-013-SA5C-SB-4.0-5.0	ETHANOL	J	260	550	PQL	ug/Kg	J (all detects)
SL-013-SA5C-SB-9.0-10.0	ETHANOL	J	260	550	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA5C-SB-4.0-5.0	EFH (C15-C20)	J	0.48	1.3	PQL	mg/Kg	J (all detects)
SL-016-SA5C-SB-4.0-5.0	EFH (C15-C20)	J	0.53	1.3	PQL	mg/Kg	J (all detects)
SL-016-SA5C-SB-9.0-10.0	EFH (C15-C20)	J	5.8	6.6	PQL	mg/Kg	J (all detects)
SL-020-SA5C-SB-4.0-5.0	EFH (C21-C30)	J	1.2	1.3	PQL	mg/Kg	J (all detects)
SL-020-SA5C-SB-7.5-8.5	EFH (C30-C40)	J	1.1	1.3	PQL	mg/Kg	J (all detects)
SL-021-SA5C-SB-4.0-5.0	EFH (C15-C20)	J	0.48	1.3	PQL	mg/Kg	J (all detects)
SL-021-SA5C-SB-9.0-10.0	EFH (C15-C20)	J	0.63	1.3	PQL	mg/Kg	J (all detects)
SL-022-SA5C-SB-4.0-5.0	EFH (C21-C30)	J	0.66	1.3	PQL	mg/Kg	J (all detects)
	EFH (C30-C40)	J	0.75	1.3	PQL	mg/Kg	
SL-022-SA5C-SB-9.0-10	EFH (C21-C30)	J	0.48	1.4	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-029-SA5B-SS-0.0-0.5	BETA-BHC	J	0.071	0.18	PQL	ug/Kg	J (all detects)
SL-034-SA5B-SS-0.0-0.5	4,4'-DDT	J	0.13	0.37	PQL	ug/Kg	J (all detects)
	MIREX	J	0.10	0.37	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-4.0-5.0	AROCLOR 1260	J	0.75	1.9	PQL	ug/Kg	J (all detects)
SL-012-SA5C-SB-9.0-10.0	AROCLOR 1254	J	1.1	2.1	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.81	2.1	PQL	ug/Kg	
SL-013-SA5C-SB-4.0-5.0	AROCLOR 1254	J	1.2	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.76	1.9	PQL	ug/Kg	
SL-013-SA5C-SB-9.0-10.0	AROCLOR 1254	J	0.79	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.56	1.9	PQL	ug/Kg	
SL-015-SA5C-SB-9.0-10.0	AROCLOR 1254	J	0.68	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.65	1.8	PQL	ug/Kg	
SL-016-SA5C-SB-9.0-10.0	AROCLOR 1254	J	1.6	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.62	1.9	PQL	ug/Kg	
SL-017-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.79	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.89	1.9	PQL	ug/Kg	
SL-021-SA5C-SB-4.0-5.0	AROCLOR 1254	J	0.87	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.79	1.8	PQL	ug/Kg	
SL-021-SA5C-SB-9.0-10.0	AROCLOR 1248	J	1.6	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1254	J	0.78	1.9	PQL	ug/Kg	
	AROCLOR 1260	J	0.64	1.9	PQL	ug/Kg	
SL-035-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.58	1.9	PQL	ug/Kg	J (all detects)
SL-036-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.51	1.9	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-034-SA5B-SS-0.0-0.5	DICAMBA	J	0.90	1.3	PQL	ug/Kg	J (all detects)
SL-036-SA5B-SS-0.0-0.5	DICAMBA	J	0.57	1.3	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.1	4.0	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.1	4.0	PQL	ug/Kg	
SL-012-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	2.3	4.5	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.12	4.5	PQL	ug/Kg	
SL-013-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.49	3.8	PQL	ug/Kg	J (all detects)
SL-013-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	0.80	3.7	PQL	ug/Kg	J (all detects)
SL-015-SA5C-SB-4.0-5.0	CHLOROFORM	J	0.44	3.5	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.15	3.5	PQL	ug/Kg	
SL-015-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	2.2	4.5	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.17	4.5	PQL	ug/Kg	
SL-016-SA5C-SB-4.0-5.0	CHLOROFORM	J	0.15	3.6	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.13	3.6	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA5C-SB-9.0-10.0	2-BUTANONE (MEK)	J	3.0	7.8	PQL	ug/Kg	J (all detects)
	CHLOROFORM	J	0.16	3.9	PQL	ug/Kg	
	TOLUENE	J	0.14	3.9	PQL	ug/Kg	
SL-017-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	0.59	4.0	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.08	4.0	PQL	ug/Kg	
SL-020-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	2.6	3.6	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.15	3.6	PQL	ug/Kg	
SL-020-SA5C-SB-7.5-8.5	METHYLENE CHLORIDE	J	0.72	3.4	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.13	3.4	PQL	ug/Kg	
SL-021-SA5C-SB-4.0-5.0	CHLOROFORM	J	0.11	3.5	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.1	3.5	PQL	ug/Kg	
SL-021-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	2.9	3.8	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.14	3.8	PQL	ug/Kg	
SL-022-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.68	4.4	PQL	ug/Kg	J (all detects)
SL-022-SA5C-SB-9.0-10	METHYLENE CHLORIDE	J	1.5	3.9	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	370	PQL	ug/Kg	J (all detects)
SL-013-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	22	370	PQL	ug/Kg	J (all detects)
SL-015-SA5C-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	360	PQL	ug/Kg	J (all detects)
SL-016-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	370	PQL	ug/Kg	J (all detects)
SL-017-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	360	PQL	ug/Kg	J (all detects)
SL-034-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	360	PQL	ug/Kg	J (all detects)
SL-035-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	370	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.96	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.76	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	0.83	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	0.76	1.9	PQL	ug/Kg	
	PYRENE	J	0.84	1.9	PQL	ug/Kg	
SL-012-SA5C-SB-9.0-10.0	BENZO(G,H,I)PERYLENE	J	1.1	2.0	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.4	2.0	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	22	PQL	ug/Kg	
	Di-n-butylphthalate	J	16	22	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.84	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	2.0	PQL	ug/Kg	
SL-013-SA5C-SB-4.0-5.0	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	1.2	1.8	PQL	ug/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA5C-SB-9.0-10.0	BENZO(K)FLUORANTHENE	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	15	20	PQL	ug/Kg	
	PHENANTHRENE	J	0.99	1.8	PQL	ug/Kg	
SL-015-SA5C-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.81	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.88	1.8	PQL	ug/Kg	
	PYRENE	J	0.78	1.8	PQL	ug/Kg	
SL-015-SA5C-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	0.80	1.8	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.4	1.8	PQL	ug/Kg	
SL-016-SA5C-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.85	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.92	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.8	20	PQL	ug/Kg	
SL-017-SA5B-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	0.75	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
SL-020-SA5C-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	0.80	1.9	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	0.87	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.7	20	PQL	ug/Kg	
	Di-n-octylphthalate	J	10	20	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.9	PQL	ug/Kg	
SL-021-SA5C-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.0	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	11	19	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.2	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.85	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.2	1.8	PQL	ug/Kg	
SL-021-SA5C-SB-9.0-10.0	ACENAPHTHYLENE	J	0.63	1.8	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.7	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	19	20	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.3	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.9	20	PQL	ug/Kg	
	Di-n-octylphthalate	J	8.5	20	PQL	ug/Kg	
	FLUORENE	J	1.0	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.4	1.8	PQL	ug/Kg	
SL-022-SA5C-SB-9.0-10	BIS(2-ETHYLHEXYL)PHTHALATE	J	16	21	PQL	ug/Kg	J (all detects)
SL-029-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.94	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.2	20	PQL	ug/Kg	
	PHENANTHRENE	J	0.91	1.8	PQL	ug/Kg	
SL-034-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	0.98	1.8	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	8.3	20	PQL	ug/Kg	
	CHRYSENE	J	1.7	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.88	1.8	PQL	ug/Kg	
	PYRENE	J	1.6	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE033

Laboratory: LL

EDD Filename: DE033_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-035-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.3	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.5	20	PQL	ug/Kg	
	FLUORANTHENE	J	1.5	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.90	1.8	PQL	ug/Kg	
	PYRENE	J	1.2	1.8	PQL	ug/Kg	
SL-036-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	0.93	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	20	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.9	20	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.3	20	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	

LDC #: 25337E4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE033

ADR

Laboratory: Lancaster Laboratories

Date: 5-4-11

Page: 1 of 1

Reviewer: *OR*2nd Reviewer: *C*

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MSD (Al, Ba, Ca, Fe, Mg, Mn, P, Ti, Zn 74x) ^{RPD}
VII.	Duplicate Sample Analysis	N	Dup (Sb, B, Hg, Ag, Ti 5x RL) ^{Beysker}
VIII.	Laboratory Control Samples (LCS)	N	^{Jefferson}
IX.	Internal Standard (ICP-MS)	N	^{TLW/A}
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/US/A (Cr, Co, Cu, Ni, Zn)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	SW	EB=10

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: *Soil/water*

1	SL-015-SA5C-SB-4.0-5.0	11	SL-029-SA5B-SS-0.0-0.5	21	SL-017-SA5B-SS-0.0-0.5MS	31	
2	SL-015-SA5C-SB-9.0-10.0	12	SL-034-SA5B-SS-0.0-0.5	22	SL-017-SA5B-SS-0.0-0.5MSD	32	
3	SL-020-SA5C-SB-4.0-5.0	13	SL-035-SA5B-SS-0.0-0.5	23	SL-017-SA5B-SS-0.0-0.5DUP	33	
4	SL-020-SA5C-SB-7.5-8.5	14	SL-036-SA5B-SS-0.0-0.5	24		34	
5	SL-016-SA5C-SB-4.0-5.0	15	SL-022-SA5C-SB-4.0-5.0	25		35	
6	SL-016-SA5C-SB-9.0-10.0	16	SL-022-SA5C-SB-9.0-10.0	26		36	
7	SL-021-SA5C-SB-4.0-5.0	17	SL-012-SA5C-SB-4.0-5.0	27		37	
8	SL-021-SA5C-SB-9.0-10.0	18	SL-012-SA5C-SB-9.0-10.0	28		38	
9	SL-017-SA5B-SS-0.0-0.5	19	SL-013-SA5C-SB-4.0-5.0	29		39	
10	EB-01-SA5B-120910 <i>W</i>	20	SL-013-SA5C-SB-9.0-10.0	30		40	

Notes: _____

		Sample Identification														
Analyte	Maximum ICB/CCB ^a (ug/L)	Blank Action Limit	1	4	6	8	9	11	12	13	14	17	18	19		
Sb	0.33	0.33	0.069	0.088	0.095	0.099	0.14	0.11	0.14	0.079	0.098	0.10	0.13	0.11		

		Sample Identification														
Analyte	Maximum PB ^a (mg/Kg)	Maximum ICB/CCB ^a (ug/L)	Blank Action Limit	10												
Ag		0.16	0.8	0.10												

	Y	N	N/A
Were field blanks identified in this SDG?			
Were target analytes detected in the field blanks?			

Blank units: ug/L Associated sample units: mg/Kg
Sampling date: 12/9/10 Soil factor applied 100x

Sampling date: 12/9/10 Soil factor applied 100x

Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: 15-20

[illegible]

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected. "U":



QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: DE033

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6162864BKG
Batch ID(s): P34908B, P34926B, P35008C
Concentration Units: UG/L

Serial Dilution Lab Sample ID: 6162864L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		125675.2800		128924.3500		3		P
Antimony	121	0.6459	B	1.5000	U	100		MS
Arsenic	75	27.6900		26.7350		3		MS
Barium	137	505.1000		524.5000		4		MS
Beryllium	9	3.0580		2.8885		6		MS
Boron		38.1400	B	79.8500	B	109		P
Cadmium	111	0.5414		0.9000	U	100		MS
Calcium		46602.0400		47171.4500		1		P
Chromium	52	111.6000		125.9000		13	E	MS
Cobalt	59	30.0600		36.4600		21	E	MS
Copper	63	50.8800		58.9000		16	E	MS
Iron		174018.7800		168903.5500		3		P
Lead	208	33.2700		35.1550		6		MS
Lithium		167.8600		171.0500		2		P
Magnesium		38610.4700		39091.1000		1		P
Manganese		2204.5100		2274.5500		3		P
Molybdenum	98	5.7400		4.8900		15		MS
Nickel	60	61.2200		74.9000		22	E	MS
Phosphorus		4197.5700		4335.5500		3		P
Potassium		27047.8200		26919.7000		0		P
Selenium	78	0.8797	B	1.7040	B	94		MS
Silver	107	0.1781	B	0.3457	B	94		MS
Sodium		992.3500	B	1865.0000	U	100		P
Strontium		260.9500		259.3000		1		P
Thallium	203	1.3100		1.4165	B	8		MS
Tin		20.4300	B	50.0000	U	100		P
Titanium		4895.5600		4753.6000		3		P
Vanadium	51	192.3000		208.2000		8		MS
Zinc	66	401.2000		477.6000		19	E	MS
Zirconium		24.5900	B	42.0000	U	100		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:

P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:

U= Below MDL

B= Below LOQ

FLAGS:

E = Matrix Effects exist as proven by
Serial Dilution or Spiked Dilution

DE033 7011

SAMPLE DELIVERY GROUP

DE034

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3050B	6010B	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3050B	6020	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3060A	7199	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3546	1625C	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3550B	8015B	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3550B	8015M	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3550B	8082	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3550B	8270C	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3550B	8270C SIM	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	5035	8015M	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	5035	8260B	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	5035	8260B SIM	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	8330	8330A	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	Gen Prep	9045M	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	METHOD	300.0	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	METHOD	314.0	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	METHOD	7471A	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	METHOD	8015B	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	METHOD	8015M	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	METHOD	8315A	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	METHOD	9012B	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0DUP	P162903D221938	DUP	3050B	6010B	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0MSD	P162903M221946	MSD	3050B	6010B	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0MSD	P162903M240932A	MSD	3550B	8082	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0MSD	P162903M260707	MSD	3550B	8270C SIM	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0MSD	P162903M261352	MSD	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0MS	P162903R221942	MS	3050B	6010B	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0MS	P162903R240913A	MS	3550B	8082	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0MS	P162903R260633	MS	3550B	8270C SIM	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0MS	P162903R261326	MS	3550B	8270C	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3050B	6010B	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3050B	6020	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3060A	7199	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3546	1625C	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3550B	8015B	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3550B	8015M	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3550B	8082	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3550B	8270C	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3550B	8270C SIM	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	5035	8015M	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	5035	8260B	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	5035	8260B SIM	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	8330	8330A	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	Gen Prep	9045M	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	METHOD	300.0	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	METHOD	314.0	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	METHOD	7471A	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	METHOD	8015B	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	METHOD	8015M	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	METHOD	8315A	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	METHOD	9012B	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	3060A	7199	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	3550B	8081A	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	3550B	8082	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	3550B	8151A	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	3550B	8270C	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	3550B	8270C SIM	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	Gen Prep	9045M	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	METHOD	300.0	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	METHOD	314.0	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	METHOD	7471A	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5DUP	P162905D220512	DUP	METHOD	7471A	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5DUP	P162905D220628A	DUP	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5DUP	P162905D221441A	DUP	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5DUP	P162905D221441B	DUP	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5DUP	P162905D221441C	DUP	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5DUP	P162905D221441D	DUP	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5DUP	P162905D222305	DUP	3050B	6010B	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MSD	P162905M220517	MSD	METHOD	7471A	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MSD	P162905M220631A	MSD	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MSD	P162905M221447A	MSD	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MSD	P162905M221447B	MSD	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MSD	P162905M221447C	MSD	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MSD	P162905M221447D	MSD	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MSD	P162905M222312	MSD	3050B	6010B	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MSD	P162905M240427A	MSD	3550B	8151A	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MS	P162905R220516	MS	METHOD	7471A	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MS	P162905R220629A	MS	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MS	P162905R221444A	MS	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MS	P162905R221444B	MS	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MS	P162905R221444C	MS	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MS	P162905R221444D	MS	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MS	P162905R222308	MS	3050B	6010B	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MS	P162905R240359A	MS	3550B	8151A	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	3050B	6010B	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	3050B	6020	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	3060A	7199	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	3550B	8081A	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	3550B	8082	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	3550B	8151A	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	3550B	8270C	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	3550B	8270C SIM	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	Gen Prep	9045M	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	METHOD	300.0	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	METHOD	314.0	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	METHOD	7471A	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5DUP	P162906D270752A	DUP	METHOD	314.0	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5DUP	P162906D291045B	DUP	Gen Prep	9045M	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5MS	P162906R272215A	MS	METHOD	314.0	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	3050B	6010B	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	3050B	6020	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	3060A	7199	III

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IV = EPA Level 4 Data Validation

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FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	3550B	8081A	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	3550B	8082	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	3550B	8151A	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	3550B	8270C	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	3550B	8270C SIM	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	Gen Prep	9045M	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	METHOD	300.0	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	METHOD	314.0	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	METHOD	7471A	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	3050B	6010B	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	3050B	6020	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	3060A	7199	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	3550B	8081A	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	3550B	8082	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	3550B	8151A	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	3550B	8270C	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	3550B	8270C SIM	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	Gen Prep	9045M	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	METHOD	300.0	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	METHOD	314.0	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	METHOD	7471A	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	3050B	6010B	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	3050B	6020	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	3060A	7199	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	3550B	8081A	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	3550B	8151A	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	3550B	8270C	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	3550B	8270C SIM	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	Gen Prep	9045M	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	METHOD	300.0	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	METHOD	314.0	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	METHOD	7471A	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	3050B	6010B	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	3050B	6020	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	3060A	7199	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	3550B	8081A	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	3550B	8082	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	3550B	8151A	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	3550B	8270C	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	3550B	8270C SIM	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	Gen Prep	9045M	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	METHOD	300.0	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	METHOD	314.0	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	METHOD	7471A	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	3050B	6010B	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	3050B	6020	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	3060A	7199	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	3550B	8081A	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	3550B	8082	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	3550B	8151A	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	3550B	8270C SIM	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	Gen Prep	9045M	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	METHOD	300.0	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	METHOD	314.0	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	METHOD	7471A	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	3050B	6010B	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	3050B	6020	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	3060A	7199	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	3550B	8081A	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	3550B	8082	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	3550B	8151A	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	3550B	8270C	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	3550B	8270C SIM	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	Gen Prep	9045M	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	METHOD	300.0	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	METHOD	314.0	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	METHOD	7471A	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	3050B	6010B	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	3050B	6020	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	3060A	7199	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	3550B	8081A	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	3550B	8082	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	3550B	8151A	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	3550B	8270C	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	3550B	8270C SIM	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	Gen Prep	9045M	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

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FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	METHOD	300.0	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	METHOD	314.0	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	METHOD	7471A	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	3050B	6010B	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	3050B	6020	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	3060A	7199	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	3550B	8081A	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	3550B	8082	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	3550B	8151A	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	3550B	8270C	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	3550B	8270C SIM	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	Gen Prep	9045M	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	METHOD	300.0	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	METHOD	314.0	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	METHOD	7471A	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5DUP	P162911D271209A	DUP	METHOD	300.0	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5MS	P162911R271252A	MS	METHOD	300.0	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	3050B	6010B	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	3050B	6020	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	3060A	7199	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	3550B	8081A	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	3550B	8082	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	3550B	8151A	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	3550B	8270C	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	3550B	8270C SIM	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	Gen Prep	9045M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	METHOD	300.0	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	METHOD	314.0	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	METHOD	7471A	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	3050B	6010B	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	3050B	6020	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	3060A	7199	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	3550B	8081A	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	3550B	8082	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	3550B	8151A	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	3550B	8270C	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	3550B	8270C SIM	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	Gen Prep	9045M	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	METHOD	300.0	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	METHOD	314.0	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	METHOD	7471A	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5DUP	P162910D272018A	DUP	3060A	7199	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5MS	P162910R271930A	MS	3060A	7199	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	3050B	6010B	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	3050B	6020	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	3060A	7199	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	3550B	8081A	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	3550B	8082	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	3550B	8151A	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	3550B	8270C	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	3550B	8270C SIM	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	Gen Prep	9045M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	METHOD	300.0	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	METHOD	314.0	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	METHOD	7471A	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	3050B	6010B	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	3050B	6020	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	3060A	7199	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	3550B	8081A	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	3550B	8082	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	3550B	8151A	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	3550B	8270C	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	3550B	8270C SIM	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	Gen Prep	9045M	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	METHOD	300.0	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	METHOD	314.0	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	METHOD	7471A	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	3050B	6010B	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	3050B	6020	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	3060A	7199	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	3550B	8081A	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	3550B	8082	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	3550B	8151A	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	3550B	8270C	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	3550B	8270C SIM	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	Gen Prep	9045M	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	METHOD	300.0	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	METHOD	7471A	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5DUP	P162917D291300A	DUP	Gen Prep	9045M	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	3050B	6010B	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	3050B	6020	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	3060A	7199	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	3550B	8081A	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	3550B	8082	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	3550B	8151A	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	3550B	8270C	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	3550B	8270C SIM	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	Gen Prep	9045M	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	METHOD	300.0	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	METHOD	314.0	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	METHOD	7471A	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	3050B	6010B	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	3050B	6020	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	3060A	7199	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	3550B	8081A	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	3550B	8082	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	3550B	8151A	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	3550B	8270C	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	3550B	8270C SIM	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	Gen Prep	9045M	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	METHOD	300.0	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	METHOD	314.0	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	METHOD	7471A	III

Attachment II

25337Cov_SSFL

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-009-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.95	J	0.86	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5C-SB-9.0-10.0

Collected: 12/9/2010 10:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.96	J	0.89	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-048-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:03:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.98	J	0.90	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.2		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-061-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-062-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-064-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-065-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.5		0.88	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-067-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.86	U	0.86	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-232-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-233-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-299-SA5B-SS-0.0-0.5

Collected: 12/10/2010 10:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-300-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.0		0.97	MDL	1.2	PQL	mg/Kg	J	Q

Method Category: GENCHEM

Method: 314.0

Matrix: SO

Sample ID: SL-009-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	21.3	J	9.6	MDL	32.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/22/2011 11:40:19 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-008-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	41500		6.23	MDL	20.3	PQL	mg/Kg	J	E, E
POTASSIUM	2290		18.3	MDL	50.8	PQL	mg/Kg	J	Q
STRONTIUM	270		0.0630	MDL	0.508	PQL	mg/Kg	J	E, E, Q
TIN	1.59	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.35	J	0.853	MDL	5.08	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	7540		6.43	MDL	21.0	PQL	mg/Kg	J	E, E
POTASSIUM	2450		18.9	MDL	52.5	PQL	mg/Kg	J	Q
STRONTIUM	33.1		0.0651	MDL	0.525	PQL	mg/Kg	J	E, E, Q
TIN	1.92	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.33	J	0.882	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5C-SB-4.0-5.0

Collected: 12/9/2010 10:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2160		6.60	MDL	21.5	PQL	mg/Kg	J	E, E
POTASSIUM	2340		19.4	MDL	53.8	PQL	mg/Kg	J	Q
SODIUM	105	J	40.1	MDL	108	PQL	mg/Kg	J	Z
STRONTIUM	19.0		0.0667	MDL	0.538	PQL	mg/Kg	J	E, E, Q
TIN	1.77	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.11	J	0.904	MDL	5.38	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5C-SB-9.0-10.0

Collected: 12/9/2010 10:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1780		6.66	MDL	21.7	PQL	mg/Kg	J	E, E
POTASSIUM	1700		19.5	MDL	54.3	PQL	mg/Kg	J	Q
STRONTIUM	18.0		0.0673	MDL	0.543	PQL	mg/Kg	J	E, E, Q
TIN	2.56	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.55	J	0.912	MDL	5.43	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-048-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:03:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2620		6.71	MDL	21.9	PQL	mg/Kg	J	E, E
POTASSIUM	4830		19.7	MDL	54.7	PQL	mg/Kg	J	Q
SODIUM	80.4	J	40.8	MDL	109	PQL	mg/Kg	J	Z
STRONTIUM	13.7		0.0679	MDL	0.547	PQL	mg/Kg	J	E, E, Q
TIN	3.11	J	1.09	MDL	10.9	PQL	mg/Kg	U	B

Sample ID: SL-051-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	23000		6.80	MDL	22.2	PQL	mg/Kg	J	E, E
POTASSIUM	3810		20.0	MDL	55.5	PQL	mg/Kg	J	Q
STRONTIUM	50.0		0.0688	MDL	0.555	PQL	mg/Kg	J	E, E, Q
TIN	2.10	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.28	J	0.932	MDL	5.55	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:24:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	76000		35.2	MDL	115	PQL	mg/Kg	J	E, E

Sample ID: SL-059-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4540		20.7	MDL	57.4	PQL	mg/Kg	J	Q
STRONTIUM	136		0.0712	MDL	0.574	PQL	mg/Kg	J	E, E, Q
TIN	1.35	J	1.15	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	3.57	J	0.964	MDL	5.74	PQL	mg/Kg	J	Z

Sample ID: SL-061-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	42700		6.82	MDL	22.2	PQL	mg/Kg	J	E, E
POTASSIUM	4240		20.0	MDL	55.6	PQL	mg/Kg	J	Q
STRONTIUM	89.5		0.0690	MDL	0.556	PQL	mg/Kg	J	E, E, Q
TIN	2.04	J	1.11	MDL	11.1	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-061-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.33	J	0.934	MDL	5.56	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:00:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	68400		34.4	MDL	112	PQL	mg/Kg	J	E, E

Sample ID: SL-062-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	5630		20.2	MDL	56.2	PQL	mg/Kg	J	Q
STRONTIUM	112		0.0696	MDL	0.562	PQL	mg/Kg	J	E, E, Q
TIN	1.51	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.72	J	0.944	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SL-064-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	20300		6.60	MDL	21.5	PQL	mg/Kg	J	E, E
POTASSIUM	5080		19.4	MDL	53.8	PQL	mg/Kg	J	Q
STRONTIUM	43.0		0.0668	MDL	0.538	PQL	mg/Kg	J	E, E, Q
TIN	1.79	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.11	J	0.904	MDL	5.38	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	44500		6.70	MDL	21.9	PQL	mg/Kg	J	E, E
POTASSIUM	4160		19.7	MDL	54.6	PQL	mg/Kg	J	Q
STRONTIUM	88.2		0.0678	MDL	0.546	PQL	mg/Kg	J	E, E, Q
TIN	2.08	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.10	J	0.918	MDL	5.46	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-067-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	17800		6.54	MDL	21.3	PQL	mg/Kg	J	E, E
POTASSIUM	2410		19.2	MDL	53.3	PQL	mg/Kg	J	Q
STRONTIUM	39.5		0.0661	MDL	0.533	PQL	mg/Kg	J	E, E, Q
TIN	1.39	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.83	J	0.896	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:34:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	72300		35.7	MDL	117	PQL	mg/Kg	J	E, E

Sample ID: SL-070-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:34:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4450		21.0	MDL	58.3	PQL	mg/Kg	J	Q
STRONTIUM	126		0.0723	MDL	0.583	PQL	mg/Kg	J	E, E, Q
TIN	1.26	J	1.17	MDL	11.7	PQL	mg/Kg	U	B
Zirconium	3.14	J	0.980	MDL	5.83	PQL	mg/Kg	J	Z

Sample ID: SL-228-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4930		8.29	MDL	27.0	PQL	mg/Kg	J	E, E
POTASSIUM	2620		24.3	MDL	67.6	PQL	mg/Kg	J	Q
SODIUM	72.1	J	50.4	MDL	135	PQL	mg/Kg	J	Z
STRONTIUM	13.4		0.0838	MDL	0.676	PQL	mg/Kg	J	E, E, Q
TIN	1.91	J	1.35	MDL	13.5	PQL	mg/Kg	U	B
Zirconium	1.27	J	1.14	MDL	6.76	PQL	mg/Kg	J	Z

Sample ID: SL-229-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4140		6.91	MDL	22.6	PQL	mg/Kg	J	E, E
POTASSIUM	2520		20.3	MDL	56.4	PQL	mg/Kg	J	Q
STRONTIUM	30.3		0.0699	MDL	0.564	PQL	mg/Kg	J	E, E, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-229-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	1.59	J	1.13	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	2.55	J	0.947	MDL	5.64	PQL	mg/Kg	J	Z

Sample ID: SL-232-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	48700		6.92	MDL	22.6	PQL	mg/Kg	J	E, E
POTASSIUM	5080		20.3	MDL	56.5	PQL	mg/Kg	J	Q
STRONTIUM	91.8		0.0700	MDL	0.565	PQL	mg/Kg	J	E, E, Q
TIN	2.06	J	1.13	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	3.22	J	0.949	MDL	5.65	PQL	mg/Kg	J	Z

Sample ID: SL-233-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	41700		6.76	MDL	22.0	PQL	mg/Kg	J	E, E
POTASSIUM	4630		19.8	MDL	55.1	PQL	mg/Kg	J	Q
STRONTIUM	83.7		0.0683	MDL	0.551	PQL	mg/Kg	J	E, E, Q
TIN	1.99	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.70	J	0.926	MDL	5.51	PQL	mg/Kg	J	Z

Sample ID: SL-299-SA5B-SS-0.0-0.5

Collected: 12/10/2010 10:49:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	79500		34.8	MDL	114	PQL	mg/Kg	J	E, E

Sample ID: SL-299-SA5B-SS-0.0-0.5

Collected: 12/10/2010 10:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4620		20.4	MDL	56.8	PQL	mg/Kg	J	Q
STRONTIUM	134		0.0704	MDL	0.568	PQL	mg/Kg	J	E, E, Q
TIN	1.21	J	1.14	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	3.16	J	0.954	MDL	5.68	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-300-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	63500		7.32	MDL	23.9	PQL	mg/Kg	J	E, E
POTASSIUM	4990		21.5	MDL	59.7	PQL	mg/Kg	J	Q
STRONTIUM	120		0.0740	MDL	0.597	PQL	mg/Kg	J	E, E, Q
TIN	1.41	J	1.19	MDL	11.9	PQL	mg/Kg	U	B
Zirconium	3.15	J	1.00	MDL	5.97	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-008-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:22:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	25.9		0.0228	MDL	0.104	PQL	mg/Kg	J	E, A

Sample ID: SL-008-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:22:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0415	MDL	0.415	PQL	mg/Kg	J	Z

Sample ID: SL-008-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:22:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.815		0.0518	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-008-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:22:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.149	J	0.0622	MDL	0.207	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	4.34		0.0622	MDL	0.415	PQL	mg/Kg	J	Q
CADMIUM	0.179		0.0373	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	16.0		0.124	MDL	0.415	PQL	mg/Kg	J	Q
COBALT	5.33		0.0207	MDL	0.104	PQL	mg/Kg	J	Q
LEAD	5.13		0.0108	MDL	0.207	PQL	mg/Kg	J	Q, E
NICKEL	9.28		0.104	MDL	0.415	PQL	mg/Kg	J	Q
SILVER	0.0612	J	0.0124	MDL	0.104	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-008-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:22:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.173		0.0311	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:25:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	27.7		0.0233	MDL	0.106	PQL	mg/Kg	J	E, A

Sample ID: SL-009-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.223	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.08		0.0530	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0834	J	0.0636	MDL	0.212	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	4.81		0.0636	MDL	0.424	PQL	mg/Kg	J	Q
CADMIUM	0.314		0.0382	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	20.3		0.127	MDL	0.424	PQL	mg/Kg	J	Q
COBALT	6.14		0.0212	MDL	0.106	PQL	mg/Kg	J	Q
LEAD	6.01		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	12.8		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.120		0.0127	MDL	0.106	PQL	mg/Kg	J	Q
THALLIUM	0.235		0.0318	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-017-SA5C-SB-4.0-5.0

Collected: 12/9/2010 10:20:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	30.2		0.0244	MDL	0.111	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-017-SA5C-SB-4.0-5.0

Collected: 12/9/2010 10:20:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0443	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5C-SB-4.0-5.0

Collected: 12/9/2010 10:20:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.680		0.0554	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-017-SA5C-SB-4.0-5.0

Collected: 12/9/2010 10:20:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0665	U	0.0665	MDL	0.222	PQL	mg/Kg	R	Q
ARSENIC	5.10		0.0665	MDL	0.443	PQL	mg/Kg	J	Q
CADMIUM	0.219		0.0399	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	20.0		0.133	MDL	0.443	PQL	mg/Kg	J	Q
COBALT	8.93		0.0222	MDL	0.111	PQL	mg/Kg	J	Q
LEAD	7.25		0.0115	MDL	0.222	PQL	mg/Kg	J	Q, E
NICKEL	14.9		0.111	MDL	0.443	PQL	mg/Kg	J	Q
SILVER	0.0486	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.352		0.0333	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-017-SA5C-SB-9.0-10.0

Collected: 12/9/2010 10:30:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	31.8		0.0241	MDL	0.110	PQL	mg/Kg	J	E, A

Sample ID: SL-017-SA5C-SB-9.0-10.0

Collected: 12/9/2010 10:30:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0439	J	0.0439	MDL	0.439	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5C-SB-9.0-10.0

Collected: 12/9/2010 10:30:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.466		0.0548	MDL	0.110	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-017-SA5C-SB-9.0-10.0

Collected: 12/9/2010 10:30:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0658	U	0.0658	MDL	0.219	PQL	mg/Kg	R	Q
ARSENIC	5.44		0.0658	MDL	0.439	PQL	mg/Kg	J	Q
CADMIUM	0.0750	J	0.0395	MDL	0.110	PQL	mg/Kg	J	Z, Q
CHROMIUM	15.8		0.132	MDL	0.439	PQL	mg/Kg	J	Q
COBALT	12.6		0.0219	MDL	0.110	PQL	mg/Kg	J	Q
LEAD	5.87		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	12.1		0.110	MDL	0.439	PQL	mg/Kg	J	Q
SILVER	0.0371	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.291		0.0329	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-048-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:03:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	26.7		0.0248	MDL	0.113	PQL	mg/Kg	J	E, A

Sample ID: SL-048-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:03:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0943	J	0.0451	MDL	0.451	PQL	mg/Kg	J	Z

Sample ID: SL-048-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:03:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.327		0.0564	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-048-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:03:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0697	J	0.0676	MDL	0.225	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	5.75		0.0676	MDL	0.451	PQL	mg/Kg	J	Q
CADMIUM	0.203		0.0406	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	16.6		0.135	MDL	0.451	PQL	mg/Kg	J	Q
COBALT	5.82		0.0225	MDL	0.113	PQL	mg/Kg	J	Q
LEAD	7.82		0.0117	MDL	0.225	PQL	mg/Kg	J	Q, E
NICKEL	10.9		0.113	MDL	0.451	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-048-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:03:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0230	J	0.0135	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.395		0.0338	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-051-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:20:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	38.1		0.0244	MDL	0.111	PQL	mg/Kg	J	E, A

Sample ID: SL-051-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:20:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.164	J	0.0444	MDL	0.444	PQL	mg/Kg	J	Z

Sample ID: SL-051-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:20:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.668		0.0555	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-051-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:20:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.127	J	0.0666	MDL	0.222	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	6.92		0.0666	MDL	0.444	PQL	mg/Kg	J	Q
CADMIUM	0.339		0.0400	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	26.8		0.133	MDL	0.444	PQL	mg/Kg	J	Q
COBALT	7.84		0.0222	MDL	0.111	PQL	mg/Kg	J	Q
LEAD	10.6		0.0115	MDL	0.222	PQL	mg/Kg	J	Q, E
NICKEL	17.0		0.111	MDL	0.444	PQL	mg/Kg	J	Q
SILVER	0.0263	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.353		0.0333	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-059-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:24:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	46.2		0.0245	MDL	0.111	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-059-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:24:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.223	J	0.0446	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:24:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.353		0.0557	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-059-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:24:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0669	U	0.0669	MDL	0.223	PQL	mg/Kg	R	Q
ARSENIC	6.05		0.0669	MDL	0.446	PQL	mg/Kg	J	Q
CADMIUM	0.352		0.0401	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	29.1		0.134	MDL	0.446	PQL	mg/Kg	J	Q
COBALT	9.45		0.0223	MDL	0.111	PQL	mg/Kg	J	Q
LEAD	9.63		0.0116	MDL	0.223	PQL	mg/Kg	J	Q, E
NICKEL	18.6		0.111	MDL	0.446	PQL	mg/Kg	J	Q
SILVER	0.0325	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.377		0.0334	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-061-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:45:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	45.1		0.0247	MDL	0.112	PQL	mg/Kg	J	E, A

Sample ID: SL-061-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:45:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.221	J	0.0449	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-061-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:45:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.618		0.0562	MDL	0.112	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-061-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0703	J	0.0674	MDL	0.225	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	6.71		0.0674	MDL	0.449	PQL	mg/Kg	J	Q
CADMIUM	0.393		0.0404	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	31.5		0.135	MDL	0.449	PQL	mg/Kg	J	Q
COBALT	9.87		0.0225	MDL	0.112	PQL	mg/Kg	J	Q
LEAD	11.3		0.0117	MDL	0.225	PQL	mg/Kg	J	Q, E
NICKEL	19.9		0.112	MDL	0.449	PQL	mg/Kg	J	Q
SILVER	0.0260	J	0.0135	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.387		0.0337	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-062-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:00:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	45.8		0.0247	MDL	0.112	PQL	mg/Kg	J	E, A

Sample ID: SL-062-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:00:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.344	J	0.0449	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:00:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.442		0.0562	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-062-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0674	U	0.0674	MDL	0.225	PQL	mg/Kg	R	Q
ARSENIC	7.32		0.0674	MDL	0.449	PQL	mg/Kg	J	Q
CADMIUM	0.457		0.0404	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	31.8		0.135	MDL	0.449	PQL	mg/Kg	J	Q
COBALT	9.51		0.0225	MDL	0.112	PQL	mg/Kg	J	Q
LEAD	10.8		0.0117	MDL	0.225	PQL	mg/Kg	J	Q, E
NICKEL	20.5		0.112	MDL	0.449	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-062-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0359	J	0.0135	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.411		0.0337	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-064-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:15:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	41.2		0.0244	MDL	0.111	PQL	mg/Kg	J	E, A

Sample ID: SL-064-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:15:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.187	J	0.0443	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-064-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:15:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.611		0.0554	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-064-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0771	J	0.0665	MDL	0.222	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	6.89		0.0665	MDL	0.443	PQL	mg/Kg	J	Q
CADMIUM	0.339		0.0399	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	29.5		0.133	MDL	0.443	PQL	mg/Kg	J	Q
COBALT	9.34		0.0222	MDL	0.111	PQL	mg/Kg	J	Q
LEAD	10.4		0.0115	MDL	0.222	PQL	mg/Kg	J	Q, E
NICKEL	19.4		0.111	MDL	0.443	PQL	mg/Kg	J	Q
SILVER	0.0352	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.386		0.0333	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-065-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:25:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	39.3		0.0236	MDL	0.107	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-065-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.178	J	0.0429	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.460		0.0536	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-065-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0643	U	0.0643	MDL	0.214	PQL	mg/Kg	R	Q
ARSENIC	5.04		0.0643	MDL	0.429	PQL	mg/Kg	J	Q
CADMIUM	0.298		0.0386	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	24.2		0.129	MDL	0.429	PQL	mg/Kg	J	Q
COBALT	7.63		0.0214	MDL	0.107	PQL	mg/Kg	J	Q
LEAD	8.80		0.0111	MDL	0.214	PQL	mg/Kg	J	Q, E
NICKEL	16.3		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.0392	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.312		0.0321	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-067-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:55:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	25.1		0.0237	MDL	0.108	PQL	mg/Kg	J	E, A

Sample ID: SL-067-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:55:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-067-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:55:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.641		0.0539	MDL	0.108	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-067-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:55:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0647	U	0.0647	MDL	0.216	PQL	mg/Kg	R	Q
ARSENIC	4.44		0.0647	MDL	0.431	PQL	mg/Kg	J	Q
CADMIUM	0.333		0.0388	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	20.1		0.129	MDL	0.431	PQL	mg/Kg	J	Q
COBALT	6.53		0.0216	MDL	0.108	PQL	mg/Kg	J	Q
LEAD	9.23		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	13.2		0.108	MDL	0.431	PQL	mg/Kg	J	Q
SILVER	0.0257	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.207		0.0323	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-070-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:34:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	45.1		0.0254	MDL	0.115	PQL	mg/Kg	J	E, A

Sample ID: SL-070-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:34:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.243	J	0.0462	MDL	0.462	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:34:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.447		0.0577	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-070-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:34:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0788	J	0.0693	MDL	0.231	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	5.87		0.0693	MDL	0.462	PQL	mg/Kg	J	Q
CADMIUM	0.355		0.0416	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	28.8		0.139	MDL	0.462	PQL	mg/Kg	J	Q
COBALT	9.76		0.0231	MDL	0.115	PQL	mg/Kg	J	Q
LEAD	9.85		0.0120	MDL	0.231	PQL	mg/Kg	J	Q, E
NICKEL	20.6		0.115	MDL	0.462	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-070-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:34:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0307	J	0.0139	MDL	0.115	PQL	mg/Kg	J	Z, Q
THALLIUM	0.357		0.0346	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-228-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:12:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	23.8		0.0300	MDL	0.137	PQL	mg/Kg	J	E, A

Sample ID: SL-228-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:12:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.101	J	0.0546	MDL	0.546	PQL	mg/Kg	J	Z

Sample ID: SL-228-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:12:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.567		0.0683	MDL	0.137	PQL	mg/Kg	J	Q

Sample ID: SL-228-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:12:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0967	J	0.0819	MDL	0.273	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	4.24		0.0819	MDL	0.546	PQL	mg/Kg	J	Q
CADMIUM	0.320		0.0492	MDL	0.137	PQL	mg/Kg	J	Q
CHROMIUM	23.3		0.164	MDL	0.546	PQL	mg/Kg	J	Q
COBALT	6.02		0.0273	MDL	0.137	PQL	mg/Kg	J	Q
LEAD	12.3		0.0142	MDL	0.273	PQL	mg/Kg	J	Q, E
NICKEL	15.4		0.137	MDL	0.546	PQL	mg/Kg	J	Q
SILVER	0.0297	J	0.0164	MDL	0.137	PQL	mg/Kg	J	Z, Q
THALLIUM	0.240		0.0410	MDL	0.137	PQL	mg/Kg	J	Q

Sample ID: SL-229-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:40:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	25.6		0.0248	MDL	0.113	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-229-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:40:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.162	J	0.0451	MDL	0.451	PQL	mg/Kg	J	Z

Sample ID: SL-229-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:40:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.21		0.0564	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-229-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.104	J	0.0677	MDL	0.226	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	5.27		0.0677	MDL	0.451	PQL	mg/Kg	J	Q
CADMIUM	0.213		0.0406	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	22.6		0.135	MDL	0.451	PQL	mg/Kg	J	Q
COBALT	5.92		0.0226	MDL	0.113	PQL	mg/Kg	J	Q
LEAD	7.53		0.0117	MDL	0.226	PQL	mg/Kg	J	Q, E
NICKEL	14.2		0.113	MDL	0.451	PQL	mg/Kg	J	Q
SILVER	0.0404	J	0.0135	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.257		0.0338	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-232-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:59:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	41.4		0.0246	MDL	0.112	PQL	mg/Kg	J	E, A

Sample ID: SL-232-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:59:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.244	J	0.0447	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-232-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:59:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.686		0.0559	MDL	0.112	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-232-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:59:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0843	J	0.0671	MDL	0.224	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	7.13		0.0671	MDL	0.447	PQL	mg/Kg	J	Q
CADMIUM	0.470		0.0403	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	30.5		0.134	MDL	0.447	PQL	mg/Kg	J	Q
COBALT	9.76		0.0224	MDL	0.112	PQL	mg/Kg	J	Q
LEAD	11.8		0.0116	MDL	0.224	PQL	mg/Kg	J	Q, E
NICKEL	20.1		0.112	MDL	0.447	PQL	mg/Kg	J	Q
SILVER	0.0305	J	0.0134	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.393		0.0336	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-233-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:46:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	45.7		0.0247	MDL	0.112	PQL	mg/Kg	J	E, A

Sample ID: SL-233-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:46:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.217	J	0.0450	MDL	0.450	PQL	mg/Kg	J	Z

Sample ID: SL-233-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:46:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.543		0.0562	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-233-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:46:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0837	J	0.0674	MDL	0.225	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	6.21		0.0674	MDL	0.450	PQL	mg/Kg	J	Q
CADMIUM	0.374		0.0405	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	30.4		0.135	MDL	0.450	PQL	mg/Kg	J	Q
COBALT	10.0		0.0225	MDL	0.112	PQL	mg/Kg	J	Q
LEAD	10.6		0.0117	MDL	0.225	PQL	mg/Kg	J	Q, E
NICKEL	19.5		0.112	MDL	0.450	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-233-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:46:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0386	J	0.0135	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.377		0.0337	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-299-SA5B-SS-0.0-0.5

Collected: 12/10/2010 10:49:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	46.5		0.0252	MDL	0.115	PQL	mg/Kg	J	E, A

Sample ID: SL-299-SA5B-SS-0.0-0.5

Collected: 12/10/2010 10:49:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.258	J	0.0459	MDL	0.459	PQL	mg/Kg	J	Z

Sample ID: SL-299-SA5B-SS-0.0-0.5

Collected: 12/10/2010 10:49:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.441		0.0574	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-299-SA5B-SS-0.0-0.5

Collected: 12/10/2010 10:49:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0688	U	0.0688	MDL	0.229	PQL	mg/Kg	R	Q
ARSENIC	6.85		0.0688	MDL	0.459	PQL	mg/Kg	J	Q
CADMIUM	0.348		0.0413	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	31.3		0.138	MDL	0.459	PQL	mg/Kg	J	Q
COBALT	9.75		0.0229	MDL	0.115	PQL	mg/Kg	J	Q
LEAD	10.4		0.0119	MDL	0.229	PQL	mg/Kg	J	Q, E
NICKEL	21.0		0.115	MDL	0.459	PQL	mg/Kg	J	Q
SILVER	0.0302	J	0.0138	MDL	0.115	PQL	mg/Kg	J	Z, Q
THALLIUM	0.371		0.0344	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-300-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:04:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	49.3		0.0255	MDL	0.116	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-300-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:04:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.229	J	0.0464	MDL	0.464	PQL	mg/Kg	J	Z

Sample ID: SL-300-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:04:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.408		0.0580	MDL	0.116	PQL	mg/Kg	J	Q

Sample ID: SL-300-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:04:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0696	U	0.0696	MDL	0.232	PQL	mg/Kg	R	Q
ARSENIC	6.39		0.0696	MDL	0.464	PQL	mg/Kg	J	Q
CADMIUM	0.349		0.0418	MDL	0.116	PQL	mg/Kg	J	Q
CHROMIUM	29.7		0.139	MDL	0.464	PQL	mg/Kg	J	Q
COBALT	9.12		0.0232	MDL	0.116	PQL	mg/Kg	J	Q
LEAD	9.92		0.0121	MDL	0.232	PQL	mg/Kg	J	Q, E
NICKEL	18.5		0.116	MDL	0.464	PQL	mg/Kg	J	Q
SILVER	0.0190	J	0.0139	MDL	0.116	PQL	mg/Kg	J	Z, Q
THALLIUM	0.363		0.0348	MDL	0.116	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-009-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.74	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5C-SB-4.0-5.0

Collected: 12/9/2010 10:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.71	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-064-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-067-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.38	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:34:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-228-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.28	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-232-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-233-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.39	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-008-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0126	J	0.0028	MDL	0.0969	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-009-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0138	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-051-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0352	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-061-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0175	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-064-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0124	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0106	J	0.0031	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-067-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0071	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:34:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0090	J	0.0032	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-228-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0087	J	0.0038	MDL	0.134	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-229-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0185	J	0.0030	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-232-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0050	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-233-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0066	J	0.0032	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SL-300-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0053	J	0.0033	MDL	0.117	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-008-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.064	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z, S

Sample ID: SL-062-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.088	J	0.077	MDL	0.40	PQL	ug/Kg	J	Z
4,4'-DDT	0.29	J	0.077	MDL	0.40	PQL	ug/Kg	J	Z, L

Sample ID: SL-070-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:34:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR EPOXIDE	0.11	J	0.11	MDL	0.20	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-229-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.12	J	0.068	MDL	0.19	PQL	ug/Kg	J	Z
METHOXYCHLOR	0.96	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z, L

Sample ID: SL-299-SA5B-SS-0.0-0.5

Collected: 12/10/2010 10:49:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.14	J	0.076	MDL	0.39	PQL	ug/Kg	J	Z, L
ENDRIN ALDEHYDE	0.10	J	0.076	MDL	0.39	PQL	ug/Kg	J	Z
HEPTACHLOR EPOXIDE	0.074	J	0.039	MDL	0.19	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-008-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.5	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.86	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	1.4	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-048-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:03:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.6	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S

Sample ID: SL-051-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	7.7	J	1.8	MDL	9.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-059-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:24:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.90	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-064-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	7.1		0.37	MDL	1.9	PQL	ug/Kg	J	S
AROCLOR 1260	5.7		0.37	MDL	1.9	PQL	ug/Kg	J	S
Aroclor 5460	2.6	J	1.1	MDL	3.7	PQL	ug/Kg	J	Z, S

Sample ID: SL-065-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	3.1	J	0.73	MDL	3.8	PQL	ug/Kg	J	Z

Sample ID: SL-067-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.73	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-232-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:59:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.9	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5460	1.6	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z

Sample ID: SL-233-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:46:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	3.4	J	0.75	MDL	3.9	PQL	ug/Kg	J	Z
Aroclor 5460	3.2	J	2.3	MDL	7.5	PQL	ug/Kg	J	Z

Sample ID: SL-300-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.40	MDL	2.1	PQL	ug/Kg	J	Z
AROCLOR 1260	1.0	J	0.40	MDL	2.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-008-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.078	U	0.078	MDL	0.18	PQL	ug/Kg	R	Q
2,4-DB	0.64	U	0.64	MDL	1.8	PQL	ug/Kg	R	Q
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	Q, L
MCP	78	U	78	MDL	260	PQL	ug/Kg	R	Q

Sample ID: SL-009-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-048-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:03:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.47	J	0.45	MDL	1.4	PQL	ug/Kg	J	Z
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-051-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L
MCPA	170	J	84	MDL	280	PQL	ug/Kg	J	Z
MCP	200	J	83	MDL	280	PQL	ug/Kg	J	Z

Sample ID: SL-059-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	0.89	J	0.71	MDL	2.0	PQL	ug/Kg	J	Z
DINOSEB	0.92	U	0.92	MDL	2.8	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-061-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.92	U	0.92	MDL	2.7	PQL	ug/Kg	R	L
MCPA	110	J	87	MDL	290	PQL	ug/Kg	J	Z

Sample ID: SL-062-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L

Sample ID: SL-064-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-065-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-067-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-070-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:34:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.94	U	0.94	MDL	2.8	PQL	ug/Kg	R	L

Sample ID: SL-228-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.0	J	0.86	MDL	2.3	PQL	ug/Kg	J	Z
DINOSEB	1.1	U	1.1	MDL	3.3	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-229-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.91	U	0.91	MDL	2.7	PQL	ug/Kg	R	L
MCPD	180	J	85	MDL	280	PQL	ug/Kg	J	Z

Sample ID: SL-232-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.0	J	0.71	MDL	2.0	PQL	ug/Kg	J	Z
DINOSEB	0.92	U	0.92	MDL	2.8	PQL	ug/Kg	R	L
MCPA	200	J	88	MDL	290	PQL	ug/Kg	J	Z

Sample ID: SL-233-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:46:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.91	U	0.91	MDL	2.7	PQL	ug/Kg	R	L
MCPA	190	J	86	MDL	280	PQL	ug/Kg	J	Z

Sample ID: SL-299-SA5B-SS-0.0-0.5

Collected: 12/10/2010 10:49:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L
MCPA	150	J	88	MDL	290	PQL	ug/Kg	J	Z

Sample ID: SL-300-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.97	U	0.97	MDL	2.9	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-008-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	22	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-017-SA5C-SB-4.0-5.0

Collected: 12/9/2010 10:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,5-Dimethylphenol	130	J	37	MDL	180	PQL	ug/Kg	J	Z
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	R	Q

Sample ID: SL-064-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	58	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-067-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	97	J	90	MDL	900	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	240	J	90	MDL	900	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	130	J	90	MDL	900	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	120	J	90	MDL	900	PQL	ug/Kg	J	Z
CHRYSENE	330	J	90	MDL	900	PQL	ug/Kg	J	Z
PYRENE	98	J	90	MDL	900	PQL	ug/Kg	J	Z

Sample ID: SL-228-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:12:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	65	J	23	MDL	230	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	54	J	23	MDL	230	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	82	J	23	MDL	230	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	44	J	23	MDL	230	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	36	J	23	MDL	230	PQL	ug/Kg	J	Z
CHRYSENE	88	J	23	MDL	230	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	30	J	23	MDL	230	PQL	ug/Kg	J	Z
Di-n-butylphthalate	26	J	23	MDL	230	PQL	ug/Kg	J	Z
FLUORANTHENE	160	J	23	MDL	230	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	36	J	23	MDL	230	PQL	ug/Kg	J	Z
PHENANTHRENE	79	J	23	MDL	230	PQL	ug/Kg	J	Z
PYRENE	180	J	23	MDL	230	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-232-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:59:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	21	J	19	MDL	190	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-008-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	1.5	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.2	MDL	19	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.83	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
FLUORENE	1.6	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.2	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.2	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.82	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA5C-SB-4.0-5.0

Collected: 12/9/2010 10:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	9.9	J	6.7	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	0.82	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-017-SA5C-SB-9.0-10.0

Collected: 12/9/2010 10:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	7.1	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	6.9	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-048-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:03:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	13	J	6.8	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	14	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-051-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.1	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.6	J	6.7	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.92	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-octylphthalate	19	J	6.7	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	0.97	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.95	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-059-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:24:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	12	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-061-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	12	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Butylbenzylphthalate	16	J	6.9	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.68	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-062-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	15	J	7.0	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-064-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	11	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.8	J	6.7	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.1	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-065-SA5B-SS-0.0-0.5

Collected: 12/10/2010 2:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.87	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	9.3	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.60	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-067-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.0	J	1.8	MDL	9.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	35	J	32	MDL	97	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	6.2	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z

Sample ID: SL-070-SA5B-SS-0.0-0.5

Collected: 12/10/2010 1:34:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.59	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	20	J	7.1	MDL	21	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.5	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.5	J	7.1	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-228-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:12:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	12	J	8.3	MDL	25	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-229-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	11	J	6.8	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-232-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:59:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	1.1	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	12	J	6.9	MDL	21	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.90	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-233-SA5B-SS-0.0-0.5

Collected: 12/10/2010 12:46:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.85	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.6	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.90	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	19	J	6.8	MDL	20	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.4	J	6.8	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.1	J	6.8	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	1.8	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-299-SA5B-SS-0.0-0.5

Collected: 12/10/2010 10:49:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.99	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.84	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	11	J	7.0	MDL	21	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-300-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	1.6	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
Butylbenzylphthalate	11	J	7.2	MDL	22	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B

Matrix: SO

Sample ID: SL-017-SA5C-SB-4.0-5.0

Collected: 12/9/2010 10:20:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	240	J	110	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA5C-SB-9.0-10.0

Collected: 12/9/2010 10:30:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	230	J	110	MDL	560	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-017-SA5C-SB-4.0-5.0

Collected: 12/9/2010 10:20:00

Analysis Type: RES

Dilution: 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.1	J	0.26	MDL	4.3	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.09	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-017-SA5C-SB-9.0-10.0

Collected: 12/9/2010 10:30:00

Analysis Type: RES

Dilution: 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.97	J	0.24	MDL	4.1	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE034

Method Blank Outlier Report

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: DE034_v1.

eQAPP Name: CDM_SSFL_110509

Method: 314.0 Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
B0356B271414A	12/27/2010 2:14:00 PM	PERCHLORATE	14.6 ug/Kg	SL-008-SA5B-SS-0.0-0.5 SL-017-SA5C-SB-4.0-5.0 SL-017-SA5C-SB-9.0-10.0

Method: 6010B Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34908CB222245	12/17/2010 10:45:00 PM	PHOSPHORUS TIN	1.90 mg/Kg 1.82 mg/Kg	SL-008-SA5B-SS-0.0-0.5 SL-009-SA5B-SS-0.0-0.5 SL-017-SA5C-SB-4.0-5.0 SL-017-SA5C-SB-9.0-10.0 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-070-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-008-SA5B-SS-0.0-0.5(RES)	TIN	1.59 mg/Kg	1.59U mg/Kg
SL-009-SA5B-SS-0.0-0.5(RES)	TIN	1.92 mg/Kg	1.92U mg/Kg
SL-017-SA5C-SB-4.0-5.0(RES)	TIN	1.77 mg/Kg	1.77U mg/Kg
SL-017-SA5C-SB-9.0-10.0(RES)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-048-SA5B-SS-0.0-0.5(RES)	TIN	3.11 mg/Kg	3.11U mg/Kg
SL-051-SA5B-SS-0.0-0.5(RES)	TIN	2.10 mg/Kg	2.10U mg/Kg
SL-059-SA5B-SS-0.0-0.5(RES)	TIN	1.35 mg/Kg	1.35U mg/Kg
SL-061-SA5B-SS-0.0-0.5(RES)	TIN	2.04 mg/Kg	2.04U mg/Kg
SL-062-SA5B-SS-0.0-0.5(RES)	TIN	1.51 mg/Kg	1.51U mg/Kg
SL-064-SA5B-SS-0.0-0.5(RES)	TIN	1.79 mg/Kg	1.79U mg/Kg
SL-065-SA5B-SS-0.0-0.5(RES)	TIN	2.08 mg/Kg	2.08U mg/Kg
SL-067-SA5B-SS-0.0-0.5(RES)	TIN	1.39 mg/Kg	1.39U mg/Kg
SL-070-SA5B-SS-0.0-0.5(RES)	TIN	1.26 mg/Kg	1.26U mg/Kg
SL-228-SA5B-SS-0.0-0.5(RES)	TIN	1.91 mg/Kg	1.91U mg/Kg
SL-229-SA5B-SS-0.0-0.5(RES)	TIN	1.59 mg/Kg	1.59U mg/Kg
SL-232-SA5B-SS-0.0-0.5(RES)	TIN	2.06 mg/Kg	2.06U mg/Kg
SL-233-SA5B-SS-0.0-0.5(RES)	TIN	1.99 mg/Kg	1.99U mg/Kg
SL-299-SA5B-SS-0.0-0.5(RES)	TIN	1.21 mg/Kg	1.21U mg/Kg
SL-300-SA5B-SS-0.0-0.5(RES)	TIN	1.41 mg/Kg	1.41U mg/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: DE034_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB16B212115A	12/14/2010 9:15:00 PM	CHLOROFORM METHYLENE CHLORIDE TOLUENE	0.22 ug/Kg 1.3 ug/Kg 0.09 ug/Kg	SL-017-SA5C-SB-4.0-5.0 SL-017-SA5C-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-017-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	4.3U ug/Kg
SL-017-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.11 ug/Kg	4.3U ug/Kg
SL-017-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	0.97 ug/Kg	4.1U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: DE034_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA5B-SS-0.0-0.5MS	2,4,5-TP (Silvex)	0	0	10.00-183.00	-	2,4,5-TP (Silvex)	J (all detects) R (all non-detects)
SL-008-SA5B-SS-0.0-0.5MSD	2,4-DB	0	-	20.00-170.00	200 (50.00)	2,4-DB	
(SL-008-SA5B-SS-0.0-0.5)	DINOSEB	0	0	1.00-44.00	-	DINOSEB	
	MCPD	0	0	16.00-174.00	-	MCPD	

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA5B-SS-0.0-0.5MS	ARSENIC	128	165	75.00-125.00	-	ARSENIC	J(all detects) Zn No Qual, >4x
SL-008-SA5B-SS-0.0-0.5MSD	CADMIUM	129	144	75.00-125.00	-	CADMIUM	
(SL-008-SA5B-SS-0.0-0.5)	CHROMIUM	-	154	75.00-125.00	-	CHROMIUM	
SL-009-SA5B-SS-0.0-0.5	COBALT	-	128	75.00-125.00	-	COBALT	
SL-017-SA5C-SB-4.0-5.0	NICKEL	-	139	75.00-125.00	-	NICKEL	
SL-017-SA5C-SB-9.0-10.0	SILVER	-	130	75.00-125.00	-	SILVER	
SL-048-SA5B-SS-0.0-0.5	THALLIUM	-	135	75.00-125.00	-	THALLIUM	
SL-051-SA5B-SS-0.0-0.5	ZINC	375	355	75.00-125.00	-	ZINC	
SL-059-SA5B-SS-0.0-0.5							
SL-061-SA5B-SS-0.0-0.5							
SL-062-SA5B-SS-0.0-0.5							
SL-064-SA5B-SS-0.0-0.5							
SL-065-SA5B-SS-0.0-0.5							
SL-067-SA5B-SS-0.0-0.5							
SL-070-SA5B-SS-0.0-0.5							
SL-228-SA5B-SS-0.0-0.5							
SL-229-SA5B-SS-0.0-0.5							
SL-232-SA5B-SS-0.0-0.5							
SL-233-SA5B-SS-0.0-0.5							
SL-299-SA5B-SS-0.0-0.5							
SL-300-SA5B-SS-0.0-0.5)							
SL-008-SA5B-SS-0.0-0.5MS	ANTIMONY	36	27	75.00-125.00	-	ANTIMONY	J(all detects) R(all non-detects)
SL-008-SA5B-SS-0.0-0.5MSD							
(SL-008-SA5B-SS-0.0-0.5)							
SL-009-SA5B-SS-0.0-0.5							
SL-017-SA5C-SB-4.0-5.0							
SL-017-SA5C-SB-9.0-10.0							
SL-048-SA5B-SS-0.0-0.5							
SL-051-SA5B-SS-0.0-0.5							
SL-059-SA5B-SS-0.0-0.5							
SL-061-SA5B-SS-0.0-0.5							
SL-062-SA5B-SS-0.0-0.5							
SL-064-SA5B-SS-0.0-0.5							
SL-065-SA5B-SS-0.0-0.5							
SL-067-SA5B-SS-0.0-0.5							
SL-070-SA5B-SS-0.0-0.5							
SL-228-SA5B-SS-0.0-0.5							
SL-229-SA5B-SS-0.0-0.5							
SL-232-SA5B-SS-0.0-0.5							
SL-233-SA5B-SS-0.0-0.5							
SL-299-SA5B-SS-0.0-0.5							
SL-300-SA5B-SS-0.0-0.5)							

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: DE034_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA5B-SS-0.0-0.5MS SL-008-SA5B-SS-0.0-0.5MSD (SL-008-SA5B-SS-0.0-0.5 SL-009-SA5B-SS-0.0-0.5 SL-017-SA5C-SB-4.0-5.0 SL-017-SA5C-SB-9.0-10.0 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-070-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	LEAD	143	226	75.00-125.00	25 (20.00)	LEAD	J(all detects) UJ(all non-detects)
SL-008-SA5B-SS-0.0-0.5MS SL-008-SA5B-SS-0.0-0.5MSD (SL-008-SA5B-SS-0.0-0.5 SL-009-SA5B-SS-0.0-0.5 SL-017-SA5C-SB-4.0-5.0 SL-017-SA5C-SB-9.0-10.0 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-070-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	MOLYBDENUM	130	151	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-008-SA5B-SS-0.0-0.5MS SL-008-SA5B-SS-0.0-0.5MSD (SL-008-SA5B-SS-0.0-0.5 SL-009-SA5B-SS-0.0-0.5 SL-017-SA5C-SB-4.0-5.0 SL-017-SA5C-SB-9.0-10.0 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-070-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	BARIUM	194	364	75.00-125.00	-	BARIUM	No Qual, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: DE034_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA5B-SS-0.0-0.5MS SL-008-SA5B-SS-0.0-0.5MSD (SL-008-SA5B-SS-0.0-0.5 SL-009-SA5B-SS-0.0-0.5 SL-017-SA5C-SB-4.0-5.0 SL-017-SA5C-SB-9.0-10.0 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-070-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	ALUMINUM IRON MAGNESIUM MANGANESE PHOSPHORUS POTASSIUM	902 509 197 - 141 156	1684 2302 318 165 - 145	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - -	ALUMINUM IRON MAGNESIUM MANGANESE PHOSPHORUS POTASSIUM	J(all detects) Al Fe, Mg, Mn, P No Qual, >4x
SL-008-SA5B-SS-0.0-0.5MS SL-008-SA5B-SS-0.0-0.5MSD (SL-008-SA5B-SS-0.0-0.5 SL-009-SA5B-SS-0.0-0.5 SL-017-SA5C-SB-4.0-5.0 SL-017-SA5C-SB-9.0-10.0 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-070-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	CALCIUM STRONTIUM	-7886 -127	-6941 -88	75.00-125.00 75.00-125.00	32 (20.00) 24 (20.00)	CALCIUM STRONTIUM	J(all detects) UJ(all non-detects) Ca No Qual %R, >4x J(all detects) R(all non-detects) Sr only

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA5C-SB-4.0-5.0MSD (SL-017-SA5C-SB-4.0-5.0)	Butylbenzylphthalate N-NITROSODIMETHYLAMINE	- -	- -	73.00-140.00 48.00-113.00	42 (30.00) 31 (30.00)	Butylbenzylphthalate N-NITROSODIMETHYLAMINE	J(all detects)
SL-017-SA5C-SB-4.0-5.0MS (SL-017-SA5C-SB-4.0-5.0)	BENZO(G,H,I)PERYLENE	32	-	33.00-141.00	-	BENZO(G,H,I)PERYLENE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: DE034_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA5C-SB-4.0-5.0MSD (SL-017-SA5C-SB-4.0-5.0)	2,4-DINITROPHENOL	-	-	20.00-143.00	44 (30.00)	2,4-DINITROPHENOL	J(all detects)
SL-017-SA5C-SB-4.0-5.0MS SL-017-SA5C-SB-4.0-5.0MSD (SL-017-SA5C-SB-4.0-5.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA5C-SB-4.0-5.0MS SL-017-SA5C-SB-4.0-5.0MSD (SL-008-SA5B-SS-0.0-0.5 SL-009-SA5B-SS-0.0-0.5 SL-017-SA5C-SB-4.0-5.0 SL-017-SA5C-SB-9.0-10.0 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-070-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	TITANIUM	302	338	75.00-125.00	-	TITANIUM	No Qual, >4x

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-062-SA5B-SS-0.0-0.5MS (SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	FLUORIDE	67	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: DE034_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-008-SA5B-SS-0.0-0.5DUP (SL-008-SA5B-SS-0.0-0.5 SL -009-SA5B-SS-0.0-0.5 SL -017-SA5C-SB-4.0-5.0 SL -017-SA5C-SB-9.0-10.0 SL -048-SA5B-SS-0.0-0.5 SL -051-SA5B-SS-0.0-0.5 SL -059-SA5B-SS-0.0-0.5 SL -061-SA5B-SS-0.0-0.5 SL -062-SA5B-SS-0.0-0.5 SL -064-SA5B-SS-0.0-0.5 SL -065-SA5B-SS-0.0-0.5 SL -067-SA5B-SS-0.0-0.5 SL -070-SA5B-SS-0.0-0.5 SL -228-SA5B-SS-0.0-0.5 SL -229-SA5B-SS-0.0-0.5 SL -232-SA5B-SS-0.0-0.5 SL -233-SA5B-SS-0.0-0.5 SL -299-SA5B-SS-0.0-0.5 SL -300-SA5B-SS-0.0-0.5)	CALCIUM STRONTIUM Zirconium	125 143 32	20.00 20.00 20.00	J (all detects) UJ (all non-detects) Zr No Qual Ok by difference

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-008-SA5B-SS-0.0-0.5DUP (SL-008-SA5B-SS-0.0-0.5 SL -009-SA5B-SS-0.0-0.5 SL -017-SA5C-SB-4.0-5.0 SL -017-SA5C-SB-9.0-10.0 SL -048-SA5B-SS-0.0-0.5 SL -051-SA5B-SS-0.0-0.5 SL -059-SA5B-SS-0.0-0.5 SL -061-SA5B-SS-0.0-0.5 SL -062-SA5B-SS-0.0-0.5 SL -064-SA5B-SS-0.0-0.5 SL -065-SA5B-SS-0.0-0.5 SL -067-SA5B-SS-0.0-0.5 SL -070-SA5B-SS-0.0-0.5 SL -228-SA5B-SS-0.0-0.5 SL -229-SA5B-SS-0.0-0.5 SL -232-SA5B-SS-0.0-0.5 SL -233-SA5B-SS-0.0-0.5 SL -299-SA5B-SS-0.0-0.5 SL -300-SA5B-SS-0.0-0.5)	ANTIMONY SELENIUM THALLIUM VANADIUM	82 38 34 25	20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Sb, Se, TI No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: DE034_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-008-SA5B-SS-0.0-0.5DUP (SL-008-SA5B-SS-0.0-0.5 SL -009-SA5B-SS-0.0-0.5 SL -017-SA5C-SB-4.0-5.0 SL -017-SA5C-SB-9.0-10.0 SL -048-SA5B-SS-0.0-0.5 SL -051-SA5B-SS-0.0-0.5 SL -059-SA5B-SS-0.0-0.5 SL -061-SA5B-SS-0.0-0.5 SL -062-SA5B-SS-0.0-0.5 SL -064-SA5B-SS-0.0-0.5 SL -065-SA5B-SS-0.0-0.5 SL -067-SA5B-SS-0.0-0.5 SL -070-SA5B-SS-0.0-0.5 SL -228-SA5B-SS-0.0-0.5 SL -229-SA5B-SS-0.0-0.5 SL -232-SA5B-SS-0.0-0.5 SL -233-SA5B-SS-0.0-0.5 SL -299-SA5B-SS-0.0-0.5 SL -300-SA5B-SS-0.0-0.5)	MERCURY	43	20.00	No Qual OK by difference

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-051-SA5B-SS-0.0-0.5DUP (SL-008-SA5B-SS-0.0-0.5 SL -009-SA5B-SS-0.0-0.5 SL -017-SA5C-SB-4.0-5.0 SL -017-SA5C-SB-9.0-10.0 SL -048-SA5B-SS-0.0-0.5 SL -051-SA5B-SS-0.0-0.5 SL -059-SA5B-SS-0.0-0.5 SL -061-SA5B-SS-0.0-0.5 SL -062-SA5B-SS-0.0-0.5 SL -064-SA5B-SS-0.0-0.5 SL -065-SA5B-SS-0.0-0.5 SL -067-SA5B-SS-0.0-0.5 SL -070-SA5B-SS-0.0-0.5 SL -228-SA5B-SS-0.0-0.5 SL -229-SA5B-SS-0.0-0.5 SL -232-SA5B-SS-0.0-0.5 SL -233-SA5B-SS-0.0-0.5 SL -299-SA5B-SS-0.0-0.5 SL -300-SA5B-SS-0.0-0.5)	HEXAVALENT CHROMIUM	36	20.00	No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: DE034_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-062-SA5B-SS-0.0-0.5DUP (SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	FLUORIDE	42	20.00	No Qual OK by difference

Method: 314.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA5B-SS-0.0-0.5DUP (SL-009-SA5B-SS-0.0-0.5 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5)	PERCHLORATE	200	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03495AQ240304A (SL-008-SA5B-SS-0.0-0.5 SL-009-SA5B-SS-0.0-0.5 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-070-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	DICHLOROPROP	144	-	60.00-141.00	-	DICHLOROPROP	J (all detects)
P03495AQ240304A (SL-008-SA5B-SS-0.0-0.5 SL-009-SA5B-SS-0.0-0.5 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-070-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	DINOSEB	6	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03501AQ241924A (SL-008-SA5B-SS-0.0-0.5 SL-009-SA5B-SS-0.0-0.5 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-059-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	4,4'-DDT METHOXYCHLOR	134 141	- -	54.00-130.00 59.00-125.00	- -	4,4'-DDT METHOXYCHLOR	J(all detects)
P03519AQ241754A (SL-061-SA5B-SS-0.0-0.5 SL-070-SA5B-SS-0.0-0.5)	METHOXYCHLOR	131	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P34926CQ221432A (SL-008-SA5B-SS-0.0-0.5 SL-009-SA5B-SS-0.0-0.5 SL-017-SA5C-SB-4.0-5.0 SL-017-SA5C-SB-9.0-10.0 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-070-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	ANTIMONY	50	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: PrepDE034_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-008-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	302	20.00-120.00	All Target Analytes	J (all detects)

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-048-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	121	45.00-120.00	All Target Analytes	J(all detects)
SL-051-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	135	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-064-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	123	45.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: DE034_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA5B-SS-0.0-0.5	FLUORIDE	J	0.95	1.1	PQL	mg/Kg	J (all detects)
SL-017-SA5C-SB-9.0-10.0	Nitrate-NO3	J	0.96	1.7	PQL	mg/Kg	J (all detects)
SL-048-SA5B-SS-0.0-0.5	FLUORIDE	J	0.98	1.1	PQL	mg/Kg	J (all detects)

Method: 314.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA5B-SS-0.0-0.5	PERCHLORATE	J	21.3	32.1	PQL	ug/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5B-SS-0.0-0.5	TIN Zirconium	J	1.59	10.2	PQL	mg/Kg	J (all detects)
		J	1.35	5.08	PQL	mg/Kg	
SL-009-SA5B-SS-0.0-0.5	TIN Zirconium	J	1.92	10.5	PQL	mg/Kg	J (all detects)
		J	2.33	5.25	PQL	mg/Kg	
SL-017-SA5C-SB-4.0-5.0	SODIUM TIN Zirconium	J	105	108	PQL	mg/Kg	J (all detects)
		J	1.77	10.8	PQL	mg/Kg	
		J	2.11	5.38	PQL	mg/Kg	
SL-017-SA5C-SB-9.0-10.0	TIN Zirconium	J	2.56	10.9	PQL	mg/Kg	J (all detects)
		J	1.55	5.43	PQL	mg/Kg	
SL-048-SA5B-SS-0.0-0.5	SODIUM TIN	J	80.4	109	PQL	mg/Kg	J (all detects)
		J	3.11	10.9	PQL	mg/Kg	
SL-051-SA5B-SS-0.0-0.5	TIN Zirconium	J	2.10	11.1	PQL	mg/Kg	J (all detects)
		J	2.28	5.55	PQL	mg/Kg	
SL-059-SA5B-SS-0.0-0.5	TIN Zirconium	J	1.35	11.5	PQL	mg/Kg	J (all detects)
		J	3.57	5.74	PQL	mg/Kg	
SL-061-SA5B-SS-0.0-0.5	TIN Zirconium	J	2.04	11.1	PQL	mg/Kg	J (all detects)
		J	3.33	5.56	PQL	mg/Kg	
SL-062-SA5B-SS-0.0-0.5	TIN Zirconium	J	1.51	11.2	PQL	mg/Kg	J (all detects)
		J	2.72	5.62	PQL	mg/Kg	
SL-064-SA5B-SS-0.0-0.5	TIN Zirconium	J	1.79	10.8	PQL	mg/Kg	J (all detects)
		J	2.11	5.38	PQL	mg/Kg	
SL-065-SA5B-SS-0.0-0.5	TIN Zirconium	J	2.08	10.9	PQL	mg/Kg	J (all detects)
		J	2.10	5.46	PQL	mg/Kg	
SL-067-SA5B-SS-0.0-0.5	TIN Zirconium	J	1.39	10.7	PQL	mg/Kg	J (all detects)
		J	1.83	5.33	PQL	mg/Kg	
SL-070-SA5B-SS-0.0-0.5	TIN Zirconium	J	1.26	11.7	PQL	mg/Kg	J (all detects)
		J	3.14	5.83	PQL	mg/Kg	
SL-228-SA5B-SS-0.0-0.5	SODIUM TIN Zirconium	J	72.1	135	PQL	mg/Kg	J (all detects)
		J	1.91	13.5	PQL	mg/Kg	
		J	1.27	6.76	PQL	mg/Kg	
SL-229-SA5B-SS-0.0-0.5	TIN Zirconium	J	1.59	11.3	PQL	mg/Kg	J (all detects)
		J	2.55	5.64	PQL	mg/Kg	

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Reporting Limit Outliers

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: DE034_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-232-SA5B-SS-0.0-0.5	TIN Zirconium	J	2.06	11.3	PQL	mg/Kg	J (all detects)
		J	3.22	5.65	PQL	mg/Kg	
SL-233-SA5B-SS-0.0-0.5	TIN Zirconium	J	1.99	11.0	PQL	mg/Kg	J (all detects)
		J	3.70	5.51	PQL	mg/Kg	
SL-299-SA5B-SS-0.0-0.5	TIN Zirconium	J	1.21	11.4	PQL	mg/Kg	J (all detects)
		J	3.16	5.68	PQL	mg/Kg	
SL-300-SA5B-SS-0.0-0.5	TIN Zirconium	J	1.41	11.9	PQL	mg/Kg	J (all detects)
		J	3.15	5.97	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.149	0.207	PQL	mg/Kg	J (all detects)
		J	0.127	0.415	PQL	mg/Kg	
		J	0.0612	0.104	PQL	mg/Kg	
SL-009-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM	J	0.0834	0.212	PQL	mg/Kg	J (all detects)
		J	0.223	0.424	PQL	mg/Kg	
SL-017-SA5C-SB-4.0-5.0	SELENIUM SILVER	J	0.113	0.443	PQL	mg/Kg	J (all detects)
		J	0.0486	0.111	PQL	mg/Kg	
SL-017-SA5C-SB-9.0-10.0	CADMIUM SELENIUM SILVER	J	0.0750	0.110	PQL	mg/Kg	J (all detects)
		J	0.0439	0.439	PQL	mg/Kg	
		J	0.0371	0.110	PQL	mg/Kg	
SL-048-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.0697	0.225	PQL	mg/Kg	J (all detects)
		J	0.0943	0.451	PQL	mg/Kg	
		J	0.0230	0.113	PQL	mg/Kg	
SL-051-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.127	0.222	PQL	mg/Kg	J (all detects)
		J	0.164	0.444	PQL	mg/Kg	
		J	0.0263	0.111	PQL	mg/Kg	
SL-059-SA5B-SS-0.0-0.5	SELENIUM SILVER	J	0.223	0.446	PQL	mg/Kg	J (all detects)
		J	0.0325	0.111	PQL	mg/Kg	
SL-061-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.0703	0.225	PQL	mg/Kg	J (all detects)
		J	0.221	0.449	PQL	mg/Kg	
		J	0.0260	0.112	PQL	mg/Kg	
SL-062-SA5B-SS-0.0-0.5	SELENIUM SILVER	J	0.344	0.449	PQL	mg/Kg	J (all detects)
		J	0.0359	0.112	PQL	mg/Kg	
SL-064-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.0771	0.222	PQL	mg/Kg	J (all detects)
		J	0.187	0.443	PQL	mg/Kg	
		J	0.0352	0.111	PQL	mg/Kg	
SL-065-SA5B-SS-0.0-0.5	SELENIUM SILVER	J	0.178	0.429	PQL	mg/Kg	J (all detects)
		J	0.0392	0.107	PQL	mg/Kg	
SL-067-SA5B-SS-0.0-0.5	SELENIUM SILVER	J	0.148	0.431	PQL	mg/Kg	J (all detects)
		J	0.0257	0.108	PQL	mg/Kg	
SL-070-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.0788	0.231	PQL	mg/Kg	J (all detects)
		J	0.243	0.462	PQL	mg/Kg	
		J	0.0307	0.115	PQL	mg/Kg	
SL-228-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.0967	0.273	PQL	mg/Kg	J (all detects)
		J	0.101	0.546	PQL	mg/Kg	
		J	0.0297	0.137	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: DE034_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-229-SA5B-SS-0.0-0.5	ANTIMONY	J	0.104	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.162	0.451	PQL	mg/Kg	
	SILVER	J	0.0404	0.113	PQL	mg/Kg	
SL-232-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0843	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.244	0.447	PQL	mg/Kg	
	SILVER	J	0.0305	0.112	PQL	mg/Kg	
SL-233-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0837	0.225	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.217	0.450	PQL	mg/Kg	
	SILVER	J	0.0386	0.112	PQL	mg/Kg	
SL-299-SA5B-SS-0.0-0.5	SELENIUM	J	0.258	0.459	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0302	0.115	PQL	mg/Kg	
SL-300-SA5B-SS-0.0-0.5	SELENIUM	J	0.229	0.464	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0190	0.116	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.74	1.1	PQL	mg/Kg	J (all detects)
SL-017-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.71	1.1	PQL	mg/Kg	J (all detects)
SL-064-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.34	1.1	PQL	mg/Kg	J (all detects)
SL-067-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.38	1.1	PQL	mg/Kg	J (all detects)
SL-070-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.44	1.2	PQL	mg/Kg	J (all detects)
SL-228-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.41	1.4	PQL	mg/Kg	J (all detects)
SL-232-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.50	1.2	PQL	mg/Kg	J (all detects)
SL-233-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.39	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5B-SS-0.0-0.5	MERCURY	J	0.0126	0.0969	PQL	mg/Kg	J (all detects)
SL-009-SA5B-SS-0.0-0.5	MERCURY	J	0.0138	0.105	PQL	mg/Kg	J (all detects)
SL-051-SA5B-SS-0.0-0.5	MERCURY	J	0.0352	0.111	PQL	mg/Kg	J (all detects)
SL-061-SA5B-SS-0.0-0.5	MERCURY	J	0.0175	0.111	PQL	mg/Kg	J (all detects)
SL-064-SA5B-SS-0.0-0.5	MERCURY	J	0.0124	0.111	PQL	mg/Kg	J (all detects)
SL-065-SA5B-SS-0.0-0.5	MERCURY	J	0.0106	0.110	PQL	mg/Kg	J (all detects)
SL-067-SA5B-SS-0.0-0.5	MERCURY	J	0.0071	0.104	PQL	mg/Kg	J (all detects)
SL-070-SA5B-SS-0.0-0.5	MERCURY	J	0.0090	0.110	PQL	mg/Kg	J (all detects)
SL-228-SA5B-SS-0.0-0.5	MERCURY	J	0.0087	0.134	PQL	mg/Kg	J (all detects)
SL-229-SA5B-SS-0.0-0.5	MERCURY	J	0.0185	0.106	PQL	mg/Kg	J (all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: DE034_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-232-SA5B-SS-0.0-0.5	MERCURY	J	0.0050	0.107	PQL	mg/Kg	J (all detects)
SL-233-SA5B-SS-0.0-0.5	MERCURY	J	0.0066	0.113	PQL	mg/Kg	J (all detects)
SL-300-SA5B-SS-0.0-0.5	MERCURY	J	0.0053	0.117	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA5C-SB-4.0-5.0	ETHANOL	J	240	550	PQL	ug/Kg	J (all detects)
SL-017-SA5C-SB-9.0-10.0	ETHANOL	J	230	560	PQL	ug/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5B-SS-0.0-0.5	DELTA-BHC	J	0.064	0.17	PQL	ug/Kg	J (all detects)
SL-062-SA5B-SS-0.0-0.5	4,4'-DDE	J	0.088	0.40	PQL	ug/Kg	J (all detects)
	4,4'-DDT	J	0.29	0.40	PQL	ug/Kg	
SL-070-SA5B-SS-0.0-0.5	HEPTACHLOR EPOXIDE	J	0.11	0.20	PQL	ug/Kg	J (all detects)
SL-229-SA5B-SS-0.0-0.5	BETA-BHC	J	0.12	0.19	PQL	ug/Kg	J (all detects)
	METHOXYCHLOR	J	0.96	1.9	PQL	ug/Kg	
SL-299-SA5B-SS-0.0-0.5	4,4'-DDT	J	0.14	0.39	PQL	ug/Kg	J (all detects)
	ENDRIN ALDEHYDE	J	0.10	0.39	PQL	ug/Kg	
	HEPTACHLOR EPOXIDE	J	0.074	0.19	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.5	1.8	PQL	ug/Kg	J (all detects)
SL-009-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.86	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.4	1.8	PQL	ug/Kg	
SL-048-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.6	1.9	PQL	ug/Kg	J (all detects)
SL-051-SA5B-SS-0.0-0.5	AROCLOR 1260	J	7.7	9.4	PQL	ug/Kg	J (all detects)
SL-059-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.90	2.0	PQL	ug/Kg	J (all detects)
SL-064-SA5B-SS-0.0-0.5	Aroclor 5460	J	2.6	3.7	PQL	ug/Kg	J (all detects)
SL-065-SA5B-SS-0.0-0.5	AROCLOR 1260	J	3.1	3.8	PQL	ug/Kg	J (all detects)
SL-067-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.73	1.8	PQL	ug/Kg	J (all detects)
SL-232-SA5B-SS-0.0-0.5	AROCLOR 1248	J	1.9	2.0	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.6	3.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: DE034_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-233-SA5B-SS-0.0-0.5	AROCLOR 1260	J	3.4	3.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	3.2	7.5	PQL	ug/Kg	
SL-300-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.2	2.1	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.0	2.1	PQL	ug/Kg	

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-048-SA5B-SS-0.0-0.5	DICAMBA	J	0.47	1.4	PQL	ug/Kg	J (all detects)
SL-051-SA5B-SS-0.0-0.5	MCPA	J	170	280	PQL	ug/Kg	J (all detects)
	MCPP	J	200	280	PQL	ug/Kg	
SL-059-SA5B-SS-0.0-0.5	2,4-DB	J	0.89	2.0	PQL	ug/Kg	J (all detects)
SL-061-SA5B-SS-0.0-0.5	MCPA	J	110	290	PQL	ug/Kg	J (all detects)
SL-228-SA5B-SS-0.0-0.5	2,4-DB	J	1.0	2.3	PQL	ug/Kg	J (all detects)
SL-229-SA5B-SS-0.0-0.5	MCPP	J	180	280	PQL	ug/Kg	J (all detects)
SL-232-SA5B-SS-0.0-0.5	2,4-DB	J	1.0	2.0	PQL	ug/Kg	J (all detects)
	MCPA	J	200	290	PQL	ug/Kg	
SL-233-SA5B-SS-0.0-0.5	MCPA	J	190	280	PQL	ug/Kg	J (all detects)
SL-299-SA5B-SS-0.0-0.5	MCPA	J	150	290	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.1	4.3	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.11	4.3	PQL	ug/Kg	
SL-017-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	0.97	4.1	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	22	170	PQL	ug/Kg	J (all detects)
SL-017-SA5C-SB-4.0-5.0	3,5-Dimethylphenol	J	130	180	PQL	ug/Kg	J (all detects)
SL-064-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	58	190	PQL	ug/Kg	J (all detects)
SL-067-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	97	900	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	240	900	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	130	900	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	120	900	PQL	ug/Kg	
	CHRYSENE	J	330	900	PQL	ug/Kg	
	PYRENE	J	98	900	PQL	ug/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: DE034_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-228-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	65	230	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	54	230	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	82	230	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	44	230	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	36	230	PQL	ug/Kg	
	CHRYSENE	J	88	230	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	30	230	PQL	ug/Kg	
	Di-n-butylphthalate	J	26	230	PQL	ug/Kg	
	FLUORANTHENE	J	160	230	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	36	230	PQL	ug/Kg	
	PHENANTHRENE	J	79	230	PQL	ug/Kg	
	PYRENE	J	180	230	PQL	ug/Kg	
SL-232-SA5B-SS-0.0-0.5	CHRYSENE	J	21	190	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5B-SS-0.0-0.5	ACENAPHTHENE	J	1.5	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	19	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.83	1.7	PQL	ug/Kg	
	FLUORENE	J	1.6	1.7	PQL	ug/Kg	
SL-009-SA5B-SS-0.0-0.5	ANTHRACENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.2	19	PQL	ug/Kg	
SL-017-SA5C-SB-4.0-5.0	INDENO(1,2,3-CD)PYRENE	J	0.82	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	
	Di-n-octylphthalate	J	9.9	20	PQL	ug/Kg	
SL-017-SA5C-SB-9.0-10.0	NAPHTHALENE	J	0.82	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.1	20	PQL	ug/Kg	
SL-048-SA5B-SS-0.0-0.5	Di-n-octylphthalate	J	6.9	20	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	20	PQL	ug/Kg	
SL-051-SA5B-SS-0.0-0.5	Di-n-octylphthalate	J	14	20	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.6	20	PQL	ug/Kg	
	CHRYSENE	J	0.92	1.8	PQL	ug/Kg	
	Di-n-octylphthalate	J	19	20	PQL	ug/Kg	
	FLUORANTHENE	J	0.97	1.8	PQL	ug/Kg	
SL-059-SA5B-SS-0.0-0.5	PYRENE	J	0.95	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	21	PQL	ug/Kg	
SL-061-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	21	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	16	21	PQL	ug/Kg	
	CHRYSENE	J	0.68	1.9	PQL	ug/Kg	
SL-062-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	21	PQL	ug/Kg	J (all detects)
SL-064-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	20	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	7.8	20	PQL	ug/Kg	
	CHRYSENE	J	1.6	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.2	1.9	PQL	ug/Kg	
	PYRENE	J	1.1	1.9	PQL	ug/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE034

Laboratory: LL

EDD Filename: DE034_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-065-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.87	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.3	20	PQL	ug/Kg	
	CHRYSENE	J	0.60	1.8	PQL	ug/Kg	
SL-067-SA5B-SS-0.0-0.5	ANTHRACENE	J	2.0	9.0	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	35	97	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	6.2	9.0	PQL	ug/Kg	
SL-070-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	0.59	2.0	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	21	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.5	2.0	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.5	21	PQL	ug/Kg	
SL-228-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	25	PQL	ug/Kg	J (all detects)
SL-229-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	21	PQL	ug/Kg	J (all detects)
SL-232-SA5B-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	21	PQL	ug/Kg	
	FLUORANTHENE	J	1.2	1.9	PQL	ug/Kg	
	PYRENE	J	0.90	1.9	PQL	ug/Kg	
SL-233-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	0.85	1.9	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.6	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.90	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	20	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.4	20	PQL	ug/Kg	
	CHRYSENE	J	1.4	1.9	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.1	20	PQL	ug/Kg	
	FLUORANTHENE	J	1.8	1.9	PQL	ug/Kg	
	PYRENE	J	1.3	1.9	PQL	ug/Kg	
SL-299-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.99	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.3	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.4	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.84	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	21	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.9	PQL	ug/Kg	
SL-300-SA5B-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	1.6	2.0	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	11	22	PQL	ug/Kg	

METHOD: Metals (EPA SW 846 Method 6010B/6020X/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Bi, Ca, Fe, Mg, Mn, P, Zn > 4x) ^{→ RPD due}
VII.	Duplicate Sample Analysis	N	DUP (Sb, Hg, Se, Tl, Zr < 5x RL)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/JJA (v)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	—	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil

1	SL-017-SA5C-SB-4.0-5.0	11	SL-232-SA5B-SS-0.0-0.5	21	(13) MSD	31	
2	SL-017-SA5C-SB-9.0-10.0	12	SL-233-SA5B-SS-0.0-0.5	22	L OUP	32	
3	SL-008-SA5B-SS-0.0-0.5	13	SL-299-SA5B-SS-0.0-0.5	23		33	
4	SL-009-SA5B-SS-0.0-0.5	14	SL-300-SA5B-SS-0.0-0.5	24		34	
5	SL-228-SA5B-SS-0.0-0.5	15	SL-067-SA5B-SS-0.0-0.5	25		35	
6	SL-229-SA5B-SS-0.0-0.5	16	SL-059-SA5B-SS-0.0-0.5	26		36	
7	SL-048-SA5B-SS-0.0-0.5	17	SL-065-SA5B-SS-0.0-0.5	27		37	
8	SL-051-SA5B-SS-0.0-0.5	18	SL-061-SA5B-SS-0.0-0.5	28		38	
9	SL-062-SA5B-SS-0.0-0.5	19	SL-070-SA5B-SS-0.0-0.5	29		39	
10	SL-064-SA5B-SS-0.0-0.5	20	(13) MS	30		40	

Notes: _____

		Sample Identification											
Analyte	Maximum ICB/CCB ² (ug/l)	Blank Action Limit	3	4	5	6	7	8	10	11	12	18	19
Sb	0.42	0.42	0.15	0.083	0.097	0.10	0.070	0.13	0.077	0.084	0.084	0.070	0.079



QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: DE034

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6162905BKG

Serial Dilution Lab Sample ID: 6162905L

Batch ID(s): P34908C, P34926C

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		86114.4700		79924.2500		7		P
Antimony	121	0.7182	B	1.5000	U	100		MS
Arsenic	75	20.9200		19.0950		9		MS
Barium	137	483.2000		457.1000		5		MS
Beryllium	9	1.3750		1.4635	B	6		MS
Boron		84.2000		106.2500	B	26		P
Cadmium	111	0.8659		1.1120	B	28		MS
Calcium		408833.5400		411099.6000		1		P
Chromium	52	77.0900		77.1500		0		MS
Cobalt	59	25.7300		26.7050		4		MS
Copper	63	53.9300		55.4000		3		MS
Iron		144430.1200		137842.1500		5		P
Lead	208	24.7300		23.0750		7		MS
Lithium		123.7900		131.8500		7		P
Magnesium		41744.7400		41060.3000		2		P
Manganese		2157.4900		2216.2500		3		P
Molybdenum	98	3.9320		3.5825		9		MS
Nickel	60	44.7900		47.8400		7		MS
Phosphorus		5203.2200		5206.7500		0		P
Potassium		22569.7900		22729.5500		1		P
Selenium	78	0.6120	B	1.0000	U	100		MS
Silver	107	0.2955	B	0.3641	B	23		MS
Sodium		2883.9500		2747.1500	B	5		P
Strontium		2661.0700		2615.1000		2		P
Thallium	203	0.8330		0.7500	U	100		MS
Tin		15.6100	B	50.0000	U	100		P
Vanadium	51	124.8000		147.4500		18	E	MS
Zinc	66	378.7000		343.3500		9		MS
Zirconium		13.3100	B	42.0000	U	100		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:

P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:

U= Below MDL
B= Below LOQ

FLAGS:

E = Matrix Effects exist as proven by
Serial Dilution or Spiked Dilution

34934 4715

SAMPLE DELIVERY GROUP

DE035

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	3050B	6010B	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	3050B	6020	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	3060A	7199	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	3550B	8081A	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	3550B	8082	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	3550B	8151A	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	3550B	8270C	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	3550B	8270C SIM	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	Gen Prep	9045M	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	METHOD	300.0	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	METHOD	314.0	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	METHOD	7471A	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	3050B	6010B	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	3050B	6020	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	3060A	7199	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	3550B	8081A	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	3550B	8082	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	3550B	8151A	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	3550B	8270C	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	3550B	8270C SIM	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	E300.0	314.0	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	Gen Prep	9045M	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	METHOD	300.0	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	METHOD	7471A	III
10-Dec-2010	DUP03-SA5B-QC-121010DUP	P162948D270129A	DUP	E300.0	314.0	III
10-Dec-2010	DUP03-SA5B-QC-121010MS	P162948R270153A	MS	E300.0	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3050B	6010B	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3050B	6020	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3060A	7199	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3546	1625C	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3550B	8015B	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3550B	8015M	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3550B	8082	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3550B	8270C	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3550B	8270C SIM	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	5035	8015M	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	5035	8260B	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	5035	8260B SIM	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	8330	8330A	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	Gen Prep	9045M	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	METHOD	300.0	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	METHOD	314.0	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	METHOD	7471A	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	METHOD	8015B	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	METHOD	8015M	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	METHOD	8315A	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	METHOD	9012B	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	3050B	6010B	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	3050B	6020	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	3060A	7199	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	3550B	8081A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	3550B	8151A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	3550B	8270C	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	3550B	8270C SIM	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	Gen Prep	9045M	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	METHOD	300.0	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	METHOD	314.0	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	METHOD	7471A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	3050B	6010B	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	3050B	6020	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	3060A	7199	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	3550B	8081A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	3550B	8082	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	3550B	8151A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	3550B	8270C	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	3550B	8270C SIM	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	METHOD	300.0	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	METHOD	314.0	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	METHOD	7471A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MSD	6162945	MSD	3050B	6010B	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MSD	6162945	MSD	3050B	6020	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MSD	6162945	MSD	3550B	8081A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MSD	6162945	MSD	3550B	8082	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MSD	6162945	MSD	3550B	8151A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MSD	6162945	MSD	3550B	8270C	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MSD	6162945	MSD	3550B	8270C SIM	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MSD	6162945	MSD	METHOD	7471A	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5DUP	6162946	DUP	3050B	6010B	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5DUP	6162946	DUP	3050B	6020	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5DUP	6162946	DUP	3060A	7199	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5DUP	6162946	DUP	Gen Prep	9045M	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5DUP	6162946	DUP	METHOD	300.0	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5DUP	6162946	DUP	METHOD	314.0	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5DUP	6162946	DUP	METHOD	7471A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5DUP	P162943D270019A	DUP	METHOD	300.0	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	P162943R270033A	MS	METHOD	300.0	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3050B	6010B	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3050B	6020	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3060A	7199	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3546	1625C	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3550B	8015B	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3550B	8015M	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3550B	8082	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3550B	8270C	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3550B	8270C SIM	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	5035	8015M	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	5035	8260B	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	5035	8260B SIM	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	8330	8330A	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	Gen Prep	9045M	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	METHOD	300.0	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	METHOD	314.0	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	METHOD	7471A	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	METHOD	8015B	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	METHOD	8015M	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	METHOD	8315A	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	METHOD	9012B	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0MS	P162942R321751A	MS	3550B	8015M	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	3050B	6010B	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	3050B	6020	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	3060A	7199	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	3550B	8081A	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	3550B	8082	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	3550B	8151A	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	3550B	8270C	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	3550B	8270C SIM	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	Gen Prep	314.0	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	Gen Prep	9045M	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	METHOD	300.0	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	METHOD	7471A	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3050B	6010B	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3050B	6020	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3060A	7199	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3546	1625C	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3550B	8015B	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3550B	8015M	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3550B	8082	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3550B	8270C	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	5035	8015M	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	5035	8260B	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	5035	8260B SIM	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	8330	8330A	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	E300.0	314.0	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	Gen Prep	9045M	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	METHOD	300.0	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	METHOD	7471A	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	METHOD	8015B	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	METHOD	8015M	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	METHOD	8315A	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	METHOD	9012B	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	3050B	6010B	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	3050B	6020	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	3060A	7199	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	3550B	8081A	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	3550B	8082	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	3550B	8151A	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	3550B	8270C	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	3550B	8270C SIM	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	Gen Prep	314.0	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	Gen Prep	9045M	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	METHOD	300.0	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	METHOD	7471A	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3050B	6010B	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3050B	6020	III

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MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3060A	7199	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3546	1625C	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3550B	8015B	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3550B	8015M	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3550B	8082	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3550B	8270C	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3550B	8270C SIM	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	5035	8015M	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	5035	8260B	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	5035	8260B SIM	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	8330	8330A	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	E300.0	314.0	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	Gen Prep	9045M	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	METHOD	300.0	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	METHOD	7471A	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	METHOD	8015B	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	METHOD	8015M	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	METHOD	8315A	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	METHOD	9012B	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	3050B	6010B	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	3050B	6020	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	3060A	7199	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	3550B	8081A	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	3550B	8082	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	3550B	8151A	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	3550B	8270C	III

III = EPA Level 3 Data Review
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N = Normal Sample
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MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	3550B	8270C SIM	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	E300.0	314.0	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	Gen Prep	9045M	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	METHOD	300.0	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	METHOD	7471A	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	3050B	6010B	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	3050B	6020	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	3060A	7199	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	3550B	8081A	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	3550B	8082	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	3550B	8151A	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	3550B	8270C	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	3550B	8270C SIM	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	Gen Prep	314.0	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	Gen Prep	9045M	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	METHOD	300.0	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	METHOD	7471A	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	3050B	6010B	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	3050B	6020	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	3060A	7199	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	3550B	8082	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	3550B	8270C	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	3550B	8270C SIM	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	5035	8260B	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	5035	8260B SIM	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	E300.0	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	Gen Prep	9045M	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	METHOD	300.0	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	METHOD	7471A	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	3050B	6010B	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	3050B	6020	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	3060A	7199	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	3550B	8082	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	3550B	8270C	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	3550B	8270C SIM	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	E300.0	314.0	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	Gen Prep	9045M	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	METHOD	300.0	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	METHOD	7471A	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3050B	6010B	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3050B	6020	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3060A	7199	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3546	1625C	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3550B	8015B	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3550B	8015M	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3550B	8082	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3550B	8270C	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3550B	8270C SIM	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	5035	8015M	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	5035	8260B	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	5035	8260B SIM	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	8330	8330A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	E300.0	314.0	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	Gen Prep	9045M	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	METHOD	300.0	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	METHOD	7471A	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	METHOD	8015B	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	METHOD	8015M	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	METHOD	8315A	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	METHOD	9012B	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0DUP	P162959D291400A	DUP	Gen Prep	9045M	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3050B	6010B	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3050B	6020	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3060A	7199	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3546	1625C	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3550B	8015B	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3550B	8015M	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3550B	8082	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3550B	8270C	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3550B	8270C SIM	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	5035	8015M	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	5035	8260B	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	5035	8260B SIM	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	8330	8330A	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	E300.0	314.0	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	Gen Prep	9045M	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	METHOD	300.0	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	METHOD	7471A	III

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MS = Matrix Spike
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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	METHOD	8015B	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	METHOD	8015M	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	METHOD	8315A	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	METHOD	9012B	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0DU	P162960D270338B	DUP	METHOD	300.0	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0MS	P162960R270352B	MS	METHOD	300.0	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3050B	6010B	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3050B	6020	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3060A	7199	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3546	1625C	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3550B	8015B	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3550B	8015M	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3550B	8082	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3550B	8270C	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3550B	8270C SIM	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	5035	8015M	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	5035	8260B	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	5035	8260B SIM	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	8330	8330A	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	Gen Prep	314.0	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	Gen Prep	9045M	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	METHOD	300.0	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	METHOD	7471A	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	METHOD	8015B	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	METHOD	8015M	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	METHOD	8315A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	METHOD	9012B	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3050B	6010B	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3050B	6020	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3060A	7199	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3546	1625C	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3550B	8015B	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3550B	8015M	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3550B	8082	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3550B	8270C	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3550B	8270C SIM	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	5035	8015M	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	5035	8260B	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	5035	8260B SIM	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	8330	8330A	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	E300.0	314.0	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	Gen Prep	9045M	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	METHOD	300.0	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	METHOD	7471A	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	METHOD	8015B	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	METHOD	8015M	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	METHOD	8315A	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	METHOD	9012B	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0DU	P162958D270642B	DUP	E300.0	314.0	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0MS	P162958R270706B	MS	E300.0	314.0	III

Attachment II

10/1/17

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-005-SA5C-SB-4.0-5.0

Collected: 12/10/2010 3:29:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA5C-SB-9.0-10.0

Collected: 12/10/2010 3:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.7		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5C-SB-4.0-5.0

Collected: 12/10/2010 2:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.4		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5C-SB-9.0-10.0

Collected: 12/10/2010 2:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.3		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA5C-SB-4.0-5.0

Collected: 12/10/2010 10:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	4.8		0.91	MDL	1.7	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA5C-SB-9.0-10.0

Collected: 12/10/2010 11:03:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.88	U	0.88	MDL	1.6	PQL	mg/Kg	UJ	Q

Sample ID: SL-011-SA5C-SB-4.0-5.0

Collected: 12/10/2010 9:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.88	U	0.88	MDL	1.7	PQL	mg/Kg	UJ	Q

Sample ID: SL-011-SA5C-SB-9.0-10.0

Collected: 12/10/2010 9:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.1	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-235-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-287-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.86	U	0.86	MDL	1.1	PQL	mg/Kg	UJ	Q

Method Category: GENCHEM

Method: 9012B

Matrix: SO

Sample ID: SL-005-SA5C-SB-4.0-5.0

Collected: 12/10/2010 3:29:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.21	U	0.21	MDL	0.57	PQL	mg/Kg	UJ	H

Sample ID: SL-005-SA5C-SB-9.0-10.0

Collected: 12/10/2010 3:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.19	U	0.19	MDL	0.54	PQL	mg/Kg	UJ	H

Sample ID: SL-009-SA5C-SB-4.0-5.0

Collected: 12/10/2010 2:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.18	U	0.18	MDL	0.51	PQL	mg/Kg	UJ	H

Sample ID: SL-009-SA5C-SB-9.0-10.0

Collected: 12/10/2010 2:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.20	U	0.20	MDL	0.55	PQL	mg/Kg	UJ	H

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 9012B

Matrix: SO

Sample ID: SL-010-SA5C-SB-4.0-5.0

Collected: 12/10/2010 10:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.20	U	0.20	MDL	0.55	PQL	mg/Kg	UJ	H

Sample ID: SL-010-SA5C-SB-9.0-10.0

Collected: 12/10/2010 11:03:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.19	U	0.19	MDL	0.53	PQL	mg/Kg	UJ	H

Sample ID: SL-011-SA5C-SB-4.0-5.0

Collected: 12/10/2010 9:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.19	U	0.19	MDL	0.54	PQL	mg/Kg	UJ	H

Sample ID: SL-011-SA5C-SB-9.0-10.0

Collected: 12/10/2010 9:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.19	U	0.19	MDL	0.53	PQL	mg/Kg	UJ	H

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: DUP03-SA5B-QC-121010

Collected: 12/10/2010 9:05:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.03	J	0.882	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: DUP03-SA5B-QC-121010

Collected: 12/10/2010 9:05:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	291		0.395	MDL	1.04	PQL	mg/Kg	J	Q

Sample ID: DUP03-SA5B-QC-121010

Collected: 12/10/2010 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	3240		5.28	MDL	21.0	PQL	mg/Kg	J	E
BORON	2.88	J	0.935	MDL	5.25	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: DUP03-SA5B-QC-121010

Collected: 12/10/2010 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	8080		6.44	MDL	21.0	PQL	mg/Kg	J	E
MANGANESE	105		0.0819	MDL	0.525	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	357		0.588	MDL	10.5	PQL	mg/Kg	J	Q
SODIUM	54.3	J	39.2	MDL	105	PQL	mg/Kg	J	Z
TIN	1.80	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-005-SA5C-SB-4.0-5.0

Collected: 12/10/2010 3:29:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.74	J	0.940	MDL	5.59	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA5C-SB-4.0-5.0

Collected: 12/10/2010 3:29:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1430		0.438	MDL	1.15	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA5C-SB-4.0-5.0

Collected: 12/10/2010 3:29:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	26300		5.63	MDL	22.4	PQL	mg/Kg	J	E
CALCIUM	54500		6.86	MDL	22.4	PQL	mg/Kg	J	E
MANGANESE	354		0.0872	MDL	0.559	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	465		0.626	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.19	J	1.12	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-005-SA5C-SB-9.0-10.0

Collected: 12/10/2010 3:39:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.06	J	0.897	MDL	5.34	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA5C-SB-9.0-10.0

Collected: 12/10/2010 3:39:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1100		0.402	MDL	1.06	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-005-SA5C-SB-9.0-10.0

Collected: 12/10/2010 3:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12700		5.37	MDL	21.4	PQL	mg/Kg	J	E
CALCIUM	3520		6.55	MDL	21.4	PQL	mg/Kg	J	E
MANGANESE	229		0.0833	MDL	0.534	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	395		0.598	MDL	10.7	PQL	mg/Kg	J	Q
TIN	1.92	J	1.07	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-008-SA5C-SB-4.0-5.0

Collected: 12/10/2010 12:18:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.77	J	0.957	MDL	5.70	PQL	mg/Kg	J	Z

Sample ID: SL-008-SA5C-SB-4.0-5.0

Collected: 12/10/2010 12:18:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1710		0.416	MDL	1.10	PQL	mg/Kg	J	Q

Sample ID: SL-008-SA5C-SB-4.0-5.0

Collected: 12/10/2010 12:18:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	29800		5.73	MDL	22.8	PQL	mg/Kg	J	E
CALCIUM	9770		6.98	MDL	22.8	PQL	mg/Kg	J	E
MANGANESE	350		0.0889	MDL	0.570	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	253		0.638	MDL	11.4	PQL	mg/Kg	J	Q
TIN	2.70	J	1.14	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-008-SA5C-SB-8.0-9.0

Collected: 12/10/2010 12:22:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1210		0.412	MDL	1.08	PQL	mg/Kg	J	Q

Sample ID: SL-008-SA5C-SB-8.0-9.0

Collected: 12/10/2010 12:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	22600		5.45	MDL	21.7	PQL	mg/Kg	J	E
BORON	5.01	J	0.965	MDL	5.42	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-008-SA5C-SB-8.0-9.0

Collected: 12/10/2010 12:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1510		6.65	MDL	21.7	PQL	mg/Kg	J	E
MANGANESE	165		0.0846	MDL	0.542	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	181		0.607	MDL	10.8	PQL	mg/Kg	J	Q
SODIUM	89.6	J	40.4	MDL	108	PQL	mg/Kg	J	Z
TIN	2.74	J	1.08	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-009-SA5C-SB-4.0-5.0

Collected: 12/10/2010 2:19:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.67	J	0.881	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5C-SB-4.0-5.0

Collected: 12/10/2010 2:19:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1290		0.398	MDL	1.05	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5C-SB-4.0-5.0

Collected: 12/10/2010 2:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	11400		5.27	MDL	21.0	PQL	mg/Kg	J	E
CALCIUM	3550		6.43	MDL	21.0	PQL	mg/Kg	J	E
MANGANESE	273		0.0818	MDL	0.524	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	437		0.587	MDL	10.5	PQL	mg/Kg	J	Q
TIN	2.06	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-009-SA5C-SB-9.0-10.0

Collected: 12/10/2010 2:28:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.33	J	0.912	MDL	5.43	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5C-SB-9.0-10.0

Collected: 12/10/2010 2:28:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1230		0.417	MDL	1.10	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-009-SA5C-SB-9.0-10.0

Collected: 12/10/2010 2:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15200		5.46	MDL	21.7	PQL	mg/Kg	J	E
CALCIUM	3850		6.66	MDL	21.7	PQL	mg/Kg	J	E
MANGANESE	282		0.0847	MDL	0.543	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	324		0.608	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.46	J	1.09	MDL	10.9	PQL	mg/Kg	U	B

Sample ID: SL-010-SA5C-SB-4.0-5.0

Collected: 12/10/2010 10:54:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.94	J	0.940	MDL	5.60	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA5C-SB-4.0-5.0

Collected: 12/10/2010 10:54:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1330		0.417	MDL	1.10	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA5C-SB-4.0-5.0

Collected: 12/10/2010 10:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	18200		5.63	MDL	22.4	PQL	mg/Kg	J	E
CALCIUM	6100		6.86	MDL	22.4	PQL	mg/Kg	J	E
MANGANESE	310		0.0873	MDL	0.560	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	338		0.627	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.55	J	1.12	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-010-SA5C-SB-9.0-10.0

Collected: 12/10/2010 11:03:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.48	J	0.911	MDL	5.42	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA5C-SB-9.0-10.0

Collected: 12/10/2010 11:03:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1220		0.412	MDL	1.08	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-010-SA5C-SB-9.0-10.0

Collected: 12/10/2010 11:03:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15700		5.45	MDL	21.7	PQL	mg/Kg	J	E
CALCIUM	3780		6.65	MDL	21.7	PQL	mg/Kg	J	E
MANGANESE	259		0.0846	MDL	0.542	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	389		0.607	MDL	10.8	PQL	mg/Kg	J	Q
TIN	2.58	J	1.08	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-011-SA5C-SB-4.0-5.0

Collected: 12/10/2010 9:39:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	0.930	J	0.906	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA5C-SB-4.0-5.0

Collected: 12/10/2010 9:39:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1170		0.418	MDL	1.10	PQL	mg/Kg	J	Q

Sample ID: SL-011-SA5C-SB-4.0-5.0

Collected: 12/10/2010 9:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	14500		5.43	MDL	21.6	PQL	mg/Kg	J	E
CALCIUM	3650		6.61	MDL	21.6	PQL	mg/Kg	J	E
MANGANESE	253		0.0841	MDL	0.539	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	296		0.604	MDL	10.8	PQL	mg/Kg	J	Q
TIN	2.43	J	1.08	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-011-SA5C-SB-9.0-10.0

Collected: 12/10/2010 9:45:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1120		0.411	MDL	1.08	PQL	mg/Kg	J	Q

Sample ID: SL-011-SA5C-SB-9.0-10.0

Collected: 12/10/2010 9:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	11400		5.23	MDL	20.8	PQL	mg/Kg	J	E
CALCIUM	3630		6.38	MDL	20.8	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-011-SA5C-SB-9.0-10.0

Collected: 12/10/2010 9:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	251		0.0812	MDL	0.520	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	376		0.583	MDL	10.4	PQL	mg/Kg	J	Q
TIN	2.21	J	1.04	MDL	10.4	PQL	mg/Kg	U	B

Sample ID: SL-057-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.09	J	0.945	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SL-057-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	67300		13.8	MDL	45.0	PQL	mg/Kg	J	E

Sample ID: SL-057-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1450		0.432	MDL	1.14	PQL	mg/Kg	J	Q

Sample ID: SL-057-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	24900		5.66	MDL	22.5	PQL	mg/Kg	J	E
MANGANESE	345		0.0877	MDL	0.562	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	560		0.630	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.41	J	1.12	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.78	J	0.901	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1340		0.416	MDL	1.09	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15400		5.40	MDL	21.5	PQL	mg/Kg	J	E
CALCIUM	5650		6.58	MDL	21.5	PQL	mg/Kg	J	E
MANGANESE	274		0.0837	MDL	0.536	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	694		0.601	MDL	10.7	PQL	mg/Kg	J	Q
SODIUM	106	J	40.0	MDL	107	PQL	mg/Kg	J	Z
TIN	2.16	J	1.07	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-235-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:00:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.09	J	0.883	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-235-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:00:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1390		0.411	MDL	1.08	PQL	mg/Kg	J	Q

Sample ID: SL-235-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13700		5.29	MDL	21.0	PQL	mg/Kg	J	E
CALCIUM	9690		6.44	MDL	21.0	PQL	mg/Kg	J	E
MANGANESE	289		0.0820	MDL	0.525	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	503		0.588	MDL	10.5	PQL	mg/Kg	J	Q
SODIUM	86.4	J	39.2	MDL	105	PQL	mg/Kg	J	Z
TIN	2.31	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-287-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:55:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.22	J	0.890	MDL	5.30	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-287-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:55:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	821		0.395	MDL	1.04	PQL	mg/Kg	J	Q

Sample ID: SL-287-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	8050		5.33	MDL	21.2	PQL	mg/Kg	J	E
BORON	4.78	J	0.943	MDL	5.30	PQL	mg/Kg	J	Z
CALCIUM	4300		6.50	MDL	21.2	PQL	mg/Kg	J	E
MANGANESE	215		0.0827	MDL	0.530	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	362		0.594	MDL	10.6	PQL	mg/Kg	J	Q
SODIUM	66.7	J	39.5	MDL	106	PQL	mg/Kg	J	Z
TIN	1.99	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

Sample ID: SL-288-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:40:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.52	J	0.852	MDL	5.07	PQL	mg/Kg	J	Z

Sample ID: SL-288-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:40:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	310		0.378	MDL	0.995	PQL	mg/Kg	J	Q

Sample ID: SL-288-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	3760		5.10	MDL	20.3	PQL	mg/Kg	J	E
BORON	3.02	J	0.903	MDL	5.07	PQL	mg/Kg	J	Z
CALCIUM	7300		6.22	MDL	20.3	PQL	mg/Kg	J	E
MANGANESE	104		0.0791	MDL	0.507	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	320		0.568	MDL	10.1	PQL	mg/Kg	J	Q
SODIUM	51.4	J	37.8	MDL	101	PQL	mg/Kg	J	Z
TIN	1.85	J	1.01	MDL	10.1	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-290-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:45:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	4.03	J	0.901	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-290-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:45:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	869		0.388	MDL	1.02	PQL	mg/Kg	J	Q

Sample ID: SL-290-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	10200		5.40	MDL	21.5	PQL	mg/Kg	J	E
CALCIUM	4250		6.58	MDL	21.5	PQL	mg/Kg	J	E
MANGANESE	171		0.0837	MDL	0.536	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	603		0.601	MDL	10.7	PQL	mg/Kg	J	Q
TIN	1.46	J	1.07	MDL	10.7	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP03-SA5B-QC-121010

Collected: 12/10/2010 9:05:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.117	J	0.0412	MDL	0.412	PQL	mg/Kg	J	Z, Q

Sample ID: DUP03-SA5B-QC-121010

Collected: 12/10/2010 9:05:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.826		0.0515	MDL	0.103	PQL	mg/Kg	J	Q, E

Sample ID: DUP03-SA5B-QC-121010

Collected: 12/10/2010 9:05:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	24.2		0.111	MDL	0.412	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP03-SA5B-QC-121010

Collected: 12/10/2010 9:05:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.123	J	0.0618	MDL	0.206	PQL	mg/Kg	UJ	Q, B, FD
ARSENIC	3.76		0.0618	MDL	0.412	PQL	mg/Kg	J	Q
BERYLLIUM	0.149		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.110		0.0371	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	13.7		0.124	MDL	0.412	PQL	mg/Kg	J	Q, E
COBALT	2.52		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	4.05		0.0680	MDL	0.412	PQL	mg/Kg	J	Q, E
LEAD	5.42		0.0107	MDL	0.206	PQL	mg/Kg	J	Q, A, FD
NICKEL	8.00		0.103	MDL	0.412	PQL	mg/Kg	J	Q, E
THALLIUM	0.0571	J	0.0309	MDL	0.103	PQL	mg/Kg	J	Z, Q
VANADIUM	16.5		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, E
ZINC	15.6		0.577	MDL	3.09	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA5C-SB-4.0-5.0

Collected: 12/10/2010 3:29:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.284	J	0.0443	MDL	0.443	PQL	mg/Kg	J	Z, Q

Sample ID: SL-005-SA5C-SB-4.0-5.0

Collected: 12/10/2010 3:29:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.550		0.0554	MDL	0.111	PQL	mg/Kg	J	Q, E

Sample ID: SL-005-SA5C-SB-4.0-5.0

Collected: 12/10/2010 3:29:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	175		0.120	MDL	0.443	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA5C-SB-4.0-5.0

Collected: 12/10/2010 3:29:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.267		0.0665	MDL	0.222	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.78		0.0665	MDL	0.443	PQL	mg/Kg	J	Q
BERYLLIUM	0.799		0.0177	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	0.375		0.0399	MDL	0.111	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-005-SA5C-SB-4.0-5.0

Collected: 12/10/2010 3:29:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	37.4		0.133	MDL	0.443	PQL	mg/Kg	J	Q, E
COBALT	10.8		0.0222	MDL	0.111	PQL	mg/Kg	J	Q, E
COPPER	16.9		0.0731	MDL	0.443	PQL	mg/Kg	J	Q, E
LEAD	12.5		0.0115	MDL	0.222	PQL	mg/Kg	J	Q, A
NICKEL	21.0		0.111	MDL	0.443	PQL	mg/Kg	J	Q, E
SILVER	0.0434	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.468		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	77.0		0.0244	MDL	0.111	PQL	mg/Kg	J	Q, E
ZINC	95.8		0.620	MDL	3.32	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA5C-SB-9.0-10.0

Collected: 12/10/2010 3:39:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.160	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z, Q

Sample ID: SL-005-SA5C-SB-9.0-10.0

Collected: 12/10/2010 3:39:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.20		0.0539	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-005-SA5C-SB-9.0-10.0

Collected: 12/10/2010 3:39:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	127		0.116	MDL	0.431	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA5C-SB-9.0-10.0

Collected: 12/10/2010 3:39:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.143	J	0.0647	MDL	0.216	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.78		0.0647	MDL	0.431	PQL	mg/Kg	J	Q
BERYLLIUM	0.576		0.0173	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.324		0.0388	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	22.4		0.129	MDL	0.431	PQL	mg/Kg	J	Q, E
COBALT	6.99		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	11.6		0.0712	MDL	0.431	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-005-SA5C-SB-9.0-10.0

Collected: 12/10/2010 3:39:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	10.1		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, A
NICKEL	12.6		0.108	MDL	0.431	PQL	mg/Kg	J	Q, E
SILVER	0.0316	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.366		0.0324	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	46.4		0.0237	MDL	0.108	PQL	mg/Kg	J	Q, E
ZINC	129		0.604	MDL	3.24	PQL	mg/Kg	J	Q

Sample ID: SL-008-SA5C-SB-4.0-5.0

Collected: 12/10/2010 12:18:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	29.9		0.137	MDL	0.456	PQL	mg/Kg	J	Q, E
COBALT	7.40		0.0228	MDL	0.114	PQL	mg/Kg	J	Q, E
COPPER	10.6		0.0752	MDL	0.456	PQL	mg/Kg	J	Q, E
NICKEL	14.9		0.114	MDL	0.456	PQL	mg/Kg	J	Q, E
VANADIUM	60.3		0.0251	MDL	0.114	PQL	mg/Kg	J	Q, E

Sample ID: SL-008-SA5C-SB-4.0-5.0

Collected: 12/10/2010 12:18:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.307	J	0.0456	MDL	0.456	PQL	mg/Kg	J	Z, Q

Sample ID: SL-008-SA5C-SB-4.0-5.0

Collected: 12/10/2010 12:18:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.586		0.0570	MDL	0.114	PQL	mg/Kg	J	Q, E

Sample ID: SL-008-SA5C-SB-4.0-5.0

Collected: 12/10/2010 12:18:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	158		0.123	MDL	0.456	PQL	mg/Kg	J	Q

Sample ID: SL-008-SA5C-SB-4.0-5.0

Collected: 12/10/2010 12:18:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.237		0.0684	MDL	0.228	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-008-SA5C-SB-4.0-5.0

Collected: 12/10/2010 12:18:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.76		0.0684	MDL	0.456	PQL	mg/Kg	J	Q
BERYLLIUM	0.870		0.0182	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.247		0.0410	MDL	0.114	PQL	mg/Kg	J	Q
LEAD	11.6		0.0118	MDL	0.228	PQL	mg/Kg	J	Q, A
SILVER	0.0421	J	0.0137	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.484		0.0342	MDL	0.114	PQL	mg/Kg	J	Q
ZINC	99.1		0.638	MDL	3.42	PQL	mg/Kg	J	Q

Sample ID: SL-008-SA5C-SB-8.0-9.0

Collected: 12/10/2010 12:22:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.215	J	0.0425	MDL	0.425	PQL	mg/Kg	J	Z, Q

Sample ID: SL-008-SA5C-SB-8.0-9.0

Collected: 12/10/2010 12:22:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.05		0.0532	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-008-SA5C-SB-8.0-9.0

Collected: 12/10/2010 12:22:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	63.5		0.115	MDL	0.425	PQL	mg/Kg	J	Q

Sample ID: SL-008-SA5C-SB-8.0-9.0

Collected: 12/10/2010 12:22:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.150	J	0.0638	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.38		0.0638	MDL	0.425	PQL	mg/Kg	J	Q
BERYLLIUM	0.602		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.0604	J	0.0383	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	16.6		0.128	MDL	0.425	PQL	mg/Kg	J	Q, E
COBALT	3.54		0.0213	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	5.42		0.0702	MDL	0.425	PQL	mg/Kg	J	Q, E
LEAD	6.69		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, A
NICKEL	7.96		0.106	MDL	0.425	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-008-SA5C-SB-8.0-9.0

Collected: 12/10/2010 12:22:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.168		0.0128	MDL	0.106	PQL	mg/Kg	J	Q
THALLIUM	0.326		0.0319	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	35.2		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	53.7		0.595	MDL	3.19	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5C-SB-4.0-5.0

Collected: 12/10/2010 2:19:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.220	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z, Q

Sample ID: SL-009-SA5C-SB-4.0-5.0

Collected: 12/10/2010 2:19:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.548		0.0529	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-009-SA5C-SB-4.0-5.0

Collected: 12/10/2010 2:19:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.114	MDL	0.424	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5C-SB-4.0-5.0

Collected: 12/10/2010 2:19:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.180	J	0.0635	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.23		0.0635	MDL	0.424	PQL	mg/Kg	J	Q
BERYLLIUM	0.618		0.0169	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.137		0.0381	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	26.0		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E
COBALT	8.24		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	11.1		0.0699	MDL	0.424	PQL	mg/Kg	J	Q, E
LEAD	7.98		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, A
NICKEL	12.7		0.106	MDL	0.424	PQL	mg/Kg	J	Q, E
SILVER	0.0214	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.354		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	60.7		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-009-SA5C-SB-4.0-5.0

Collected: 12/10/2010 2:19:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	85.9		0.593	MDL	3.18	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5C-SB-9.0-10.0

Collected: 12/10/2010 2:28:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0957	J	0.0434	MDL	0.434	PQL	mg/Kg	J	Z, Q

Sample ID: SL-009-SA5C-SB-9.0-10.0

Collected: 12/10/2010 2:28:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.628		0.0543	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: SL-009-SA5C-SB-9.0-10.0

Collected: 12/10/2010 2:28:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.7		0.117	MDL	0.434	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5C-SB-9.0-10.0

Collected: 12/10/2010 2:28:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.123	J	0.0652	MDL	0.217	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.62		0.0652	MDL	0.434	PQL	mg/Kg	J	Q
BERYLLIUM	0.522		0.0174	MDL	0.109	PQL	mg/Kg	J	Q
CADMIUM	0.167		0.0391	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	15.6		0.130	MDL	0.434	PQL	mg/Kg	J	Q, E
COBALT	5.86		0.0217	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	7.10		0.0717	MDL	0.434	PQL	mg/Kg	J	Q, E
LEAD	5.85		0.0113	MDL	0.217	PQL	mg/Kg	J	Q, A
NICKEL	9.46		0.109	MDL	0.434	PQL	mg/Kg	J	Q, E
SILVER	0.0204	J	0.0130	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.286		0.0326	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	33.6		0.0239	MDL	0.109	PQL	mg/Kg	J	Q, E
ZINC	61.9		0.608	MDL	3.26	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-010-SA5C-SB-4.0-5.0

Collected: 12/10/2010 10:54:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.178	J	0.0448	MDL	0.448	PQL	mg/Kg	J	Z, Q

Sample ID: SL-010-SA5C-SB-4.0-5.0

Collected: 12/10/2010 10:54:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.952		0.0560	MDL	0.112	PQL	mg/Kg	J	Q, E

Sample ID: SL-010-SA5C-SB-4.0-5.0

Collected: 12/10/2010 10:54:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	139		0.121	MDL	0.448	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA5C-SB-4.0-5.0

Collected: 12/10/2010 10:54:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.152	J	0.0672	MDL	0.224	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.89		0.0672	MDL	0.448	PQL	mg/Kg	J	Q
BERYLLIUM	0.815		0.0179	MDL	0.112	PQL	mg/Kg	J	Q
CADMIUM	0.257		0.0403	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	27.2		0.134	MDL	0.448	PQL	mg/Kg	J	Q, E
COBALT	7.94		0.0224	MDL	0.112	PQL	mg/Kg	J	Q, E
COPPER	11.8		0.0739	MDL	0.448	PQL	mg/Kg	J	Q, E
LEAD	9.92		0.0116	MDL	0.224	PQL	mg/Kg	J	Q, A
NICKEL	16.0		0.112	MDL	0.448	PQL	mg/Kg	J	Q, E
SILVER	0.0461	J	0.0134	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.417		0.0336	MDL	0.112	PQL	mg/Kg	J	Q
VANADIUM	56.8		0.0246	MDL	0.112	PQL	mg/Kg	J	Q, E
ZINC	87.5		0.627	MDL	3.36	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA5C-SB-9.0-10.0

Collected: 12/10/2010 11:03:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.160	J	0.0434	MDL	0.434	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-010-SA5C-SB-9.0-10.0

Collected: 12/10/2010 11:03:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.42		0.0542	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-010-SA5C-SB-9.0-10.0

Collected: 12/10/2010 11:03:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	91.7		0.117	MDL	0.434	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA5C-SB-9.0-10.0

Collected: 12/10/2010 11:03:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.107	J	0.0651	MDL	0.217	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.61		0.0651	MDL	0.434	PQL	mg/Kg	J	Q
BERYLLIUM	0.519		0.0174	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.166		0.0390	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	19.7		0.130	MDL	0.434	PQL	mg/Kg	J	Q, E
COBALT	5.67		0.0217	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	7.73		0.0716	MDL	0.434	PQL	mg/Kg	J	Q, E
LEAD	6.22		0.0113	MDL	0.217	PQL	mg/Kg	J	Q, A
NICKEL	11.1		0.108	MDL	0.434	PQL	mg/Kg	J	Q, E
SILVER	0.0196	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.268		0.0325	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	35.1		0.0239	MDL	0.108	PQL	mg/Kg	J	Q, E
ZINC	65.3		0.607	MDL	3.25	PQL	mg/Kg	J	Q

Sample ID: SL-011-SA5C-SB-4.0-5.0

Collected: 12/10/2010 9:39:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.213	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z, Q

Sample ID: SL-011-SA5C-SB-4.0-5.0

Collected: 12/10/2010 9:39:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.860		0.0539	MDL	0.108	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-011-SA5C-SB-4.0-5.0

Collected: 12/10/2010 9:39:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	129		0.116	MDL	0.431	PQL	mg/Kg	J	Q

Sample ID: SL-011-SA5C-SB-4.0-5.0

Collected: 12/10/2010 9:39:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.219		0.0647	MDL	0.216	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.91		0.0647	MDL	0.431	PQL	mg/Kg	J	Q
BERYLLIUM	0.804		0.0173	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.176		0.0388	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	23.9		0.129	MDL	0.431	PQL	mg/Kg	J	Q, E
COBALT	7.33		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	10.5		0.0712	MDL	0.431	PQL	mg/Kg	J	Q, E
LEAD	9.04		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, A
NICKEL	13.8		0.108	MDL	0.431	PQL	mg/Kg	J	Q, E
SILVER	0.0422	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.424		0.0324	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	50.2		0.0237	MDL	0.108	PQL	mg/Kg	J	Q, E
ZINC	83.8		0.604	MDL	3.24	PQL	mg/Kg	J	Q

Sample ID: SL-011-SA5C-SB-9.0-10.0

Collected: 12/10/2010 9:45:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z, Q

Sample ID: SL-011-SA5C-SB-9.0-10.0

Collected: 12/10/2010 9:45:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.520		0.0531	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-011-SA5C-SB-9.0-10.0

Collected: 12/10/2010 9:45:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	104		0.115	MDL	0.424	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-011-SA5C-SB-9.0-10.0

Collected: 12/10/2010 9:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.122	J	0.0637	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.44		0.0637	MDL	0.424	PQL	mg/Kg	J	Q
BERYLLIUM	0.465		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.125		0.0382	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	14.7		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E
COBALT	5.78		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	8.60		0.0700	MDL	0.424	PQL	mg/Kg	J	Q, E
LEAD	5.62		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, A
NICKEL	9.10		0.106	MDL	0.424	PQL	mg/Kg	J	Q, E
SILVER	0.0214	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.288		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	39.0		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	70.2		0.594	MDL	3.18	PQL	mg/Kg	J	Q

Sample ID: SL-057-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.231	J	0.0450	MDL	0.450	PQL	mg/Kg	J	Z, Q

Sample ID: SL-057-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.610		0.0562	MDL	0.112	PQL	mg/Kg	J	Q, E

Sample ID: SL-057-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	136		0.121	MDL	0.450	PQL	mg/Kg	J	Q

Sample ID: SL-057-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.148	J	0.0675	MDL	0.225	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.10		0.0675	MDL	0.450	PQL	mg/Kg	J	Q
BERYLLIUM	0.698		0.0180	MDL	0.112	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-057-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.409		0.0405	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	31.7		0.135	MDL	0.450	PQL	mg/Kg	J	Q, E
COBALT	10.1		0.0225	MDL	0.112	PQL	mg/Kg	J	Q, E
COPPER	14.4		0.0742	MDL	0.450	PQL	mg/Kg	J	Q, E
LEAD	12.1		0.0117	MDL	0.225	PQL	mg/Kg	J	Q, A
NICKEL	18.8		0.112	MDL	0.450	PQL	mg/Kg	J	Q, E
SILVER	0.0416	J	0.0135	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.384		0.0337	MDL	0.112	PQL	mg/Kg	J	Q
VANADIUM	63.3		0.0247	MDL	0.112	PQL	mg/Kg	J	Q, E
ZINC	85.4		0.630	MDL	3.37	PQL	mg/Kg	J	Q

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.207		0.0319	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.141	J	0.0425	MDL	0.425	PQL	mg/Kg	J	Z, Q

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.04		0.0531	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	127		0.115	MDL	0.425	PQL	mg/Kg	J	Q

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.119	J	0.0637	MDL	0.212	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	5.03		0.0637	MDL	0.425	PQL	mg/Kg	J	Q
BERYLLIUM	0.555		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.263		0.0382	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	22.8		0.127	MDL	0.425	PQL	mg/Kg	J	Q, E
COBALT	6.31		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	10.5		0.0701	MDL	0.425	PQL	mg/Kg	J	Q, E
LEAD	7.10		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, A
NICKEL	14.5		0.106	MDL	0.425	PQL	mg/Kg	J	Q, E
SILVER	0.0378	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
VANADIUM	43.0		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	77.9		0.595	MDL	3.19	PQL	mg/Kg	J	Q

Sample ID: SL-235-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:00:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z, Q

Sample ID: SL-235-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:00:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.578		0.0531	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-235-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:00:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.115	MDL	0.424	PQL	mg/Kg	J	Q

Sample ID: SL-235-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.186	J	0.0637	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.20		0.0637	MDL	0.424	PQL	mg/Kg	J	Q
BERYLLIUM	0.543		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.193		0.0382	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	21.6		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-235-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	6.24		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	11.1		0.0700	MDL	0.424	PQL	mg/Kg	J	Q, E
LEAD	8.34		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, A
NICKEL	13.9		0.106	MDL	0.424	PQL	mg/Kg	J	Q, E
SILVER	0.0302	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.341		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	44.5		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	91.5		0.594	MDL	3.18	PQL	mg/Kg	J	Q

Sample ID: SL-287-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:55:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0751	J	0.0420	MDL	0.420	PQL	mg/Kg	J	Z, Q

Sample ID: SL-287-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:55:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.397		0.0525	MDL	0.105	PQL	mg/Kg	J	Q, E

Sample ID: SL-287-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:55:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	67.7		0.113	MDL	0.420	PQL	mg/Kg	J	Q

Sample ID: SL-287-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:55:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0875	J	0.0630	MDL	0.210	PQL	mg/Kg	UJ	Q, B
ARSENIC	3.09		0.0630	MDL	0.420	PQL	mg/Kg	J	Q
BERYLLIUM	0.335		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.206		0.0378	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	11.4		0.126	MDL	0.420	PQL	mg/Kg	J	Q, E
COBALT	3.57		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, E
COPPER	5.20		0.0693	MDL	0.420	PQL	mg/Kg	J	Q, E
LEAD	5.57		0.0109	MDL	0.210	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-287-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:55:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	7.07		0.105	MDL	0.420	PQL	mg/Kg	J	Q, E
SILVER	0.0148	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.217		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	22.9		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, E
ZINC	59.8		0.588	MDL	3.15	PQL	mg/Kg	J	Q

Sample ID: SL-288-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:40:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.193	J	0.0410	MDL	0.410	PQL	mg/Kg	J	Z, Q

Sample ID: SL-288-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:40:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.841		0.0512	MDL	0.102	PQL	mg/Kg	J	Q, E

Sample ID: SL-288-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:40:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	21.9		0.111	MDL	0.410	PQL	mg/Kg	J	Q

Sample ID: SL-288-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.366		0.0615	MDL	0.205	PQL	mg/Kg	UJ	Q, B, FD
ARSENIC	3.22		0.0615	MDL	0.410	PQL	mg/Kg	J	Q
BERYLLIUM	0.161		0.0164	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.0987	J	0.0369	MDL	0.102	PQL	mg/Kg	J	Z, Q
CHROMIUM	13.2		0.123	MDL	0.410	PQL	mg/Kg	J	Q, E
COBALT	2.34		0.0205	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	3.30		0.0676	MDL	0.410	PQL	mg/Kg	J	Q, E
LEAD	1.78		0.0107	MDL	0.205	PQL	mg/Kg	J	Q, A, FD
NICKEL	7.44		0.102	MDL	0.410	PQL	mg/Kg	J	Q, E
THALLIUM	0.0604	J	0.0307	MDL	0.102	PQL	mg/Kg	J	Z, Q
VANADIUM	15.3		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-288-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	13.0		0.574	MDL	3.07	PQL	mg/Kg	J	Q

Sample ID: SL-290-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:45:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.180	J	0.0417	MDL	0.417	PQL	mg/Kg	J	Z, Q

Sample ID: SL-290-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:45:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.37		0.0521	MDL	0.104	PQL	mg/Kg	J	Q, E

Sample ID: SL-290-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:45:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	130		0.113	MDL	0.417	PQL	mg/Kg	J	Q

Sample ID: SL-290-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.269		0.0625	MDL	0.208	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.66		0.0625	MDL	0.417	PQL	mg/Kg	J	Q
BERYLLIUM	0.288		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.232		0.0375	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	31.1		0.125	MDL	0.417	PQL	mg/Kg	J	Q, E
COBALT	5.60		0.0208	MDL	0.104	PQL	mg/Kg	J	Q, E
COPPER	9.95		0.0688	MDL	0.417	PQL	mg/Kg	J	Q, E
LEAD	5.21		0.0108	MDL	0.208	PQL	mg/Kg	J	Q, A
NICKEL	14.8		0.104	MDL	0.417	PQL	mg/Kg	J	Q, E
SILVER	0.0258	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.166		0.0313	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	42.1		0.0229	MDL	0.104	PQL	mg/Kg	J	Q, E
ZINC	43.4		0.583	MDL	3.13	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: DUP03-SA5B-QC-121010

Collected: 12/10/2010 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.30	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z, FD

Sample ID: SL-008-SA5C-SB-4.0-5.0

Collected: 12/10/2010 12:18:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-008-SA5C-SB-8.0-9.0

Collected: 12/10/2010 12:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA5C-SB-9.0-10.0

Collected: 12/10/2010 11:03:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-057-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-287-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-288-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.21	U	0.21	MDL	1.0	PQL	mg/Kg	UJ	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-290-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-008-SA5C-SB-8.0-9.0

Collected: 12/10/2010 12:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0165	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0082	J	0.0031	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-235-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0186	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C

Matrix: SO

Sample ID: SL-005-SA5C-SB-9.0-10.0

Collected: 12/10/2010 3:39:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	72.8	J	36.7	MDL	73.3	PQL	ng/Kg	J	Z

Sample ID: SL-010-SA5C-SB-4.0-5.0

Collected: 12/10/2010 10:54:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	109		38.1	MDL	76.1	PQL	ng/Kg	J	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA								
Method:	1625C	Matrix:	SO						

Sample ID: SL-010-SA5C-SB-9.0-10.0 Collected: 12/10/2010 11:03:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	70.0	J	36.5	MDL	73.0	PQL	ng/Kg	J	Z

Method Category:	SVOA								
Method:	8015M	Matrix:	SO						

Sample ID: SL-005-SA5C-SB-4.0-5.0 Collected: 12/10/2010 3:29:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.60	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA5C-SB-9.0-10.0 Collected: 12/10/2010 3:39:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.58	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5C-SB-9.0-10.0 Collected: 12/10/2010 2:28:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.2	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA5C-SB-9.0-10.0 Collected: 12/10/2010 11:03:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.49	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA5C-SB-9.0-10.0 Collected: 12/10/2010 9:45:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	8.0		0.43	MDL	1.3	PQL	mg/Kg	J	Q, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: DUP03-SA5B-QC-121010

Collected: 12/10/2010 9:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MIREX	0.10	J	0.069	MDL	0.36	PQL	ug/Kg	J	Z, FD

Sample ID: SL-288-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MIREX	0.24	U	0.24	MDL	0.36	PQL	ug/Kg	UJ	FD

Sample ID: SL-290-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.21	J	0.071	MDL	0.36	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: DUP03-SA5B-QC-121010

Collected: 12/10/2010 9:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	0.78	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
AROCLOR 1254	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	FD
AROCLOR 1260	2.1		0.35	MDL	1.8	PQL	ug/Kg	J	FD
Aroclor 5460	1.4	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, FD

Sample ID: SL-005-SA5C-SB-4.0-5.0

Collected: 12/10/2010 3:29:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.86	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-005-SA5C-SB-9.0-10.0

Collected: 12/10/2010 3:39:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.4	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.92	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	1.7	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA
Method:	8082
Matrix:	SO

Sample ID: SL-008-SA5C-SB-4.0-5.0 Collected: 12/10/2010 12:18:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.49	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5C-SB-4.0-5.0 Collected: 12/10/2010 2:19:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.91	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5C-SB-9.0-10.0 Collected: 12/10/2010 2:28:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.93	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.66	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA5C-SB-9.0-10.0 Collected: 12/10/2010 11:03:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.44	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5C-SB-4.0-5.0 Collected: 12/10/2010 9:39:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.64	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	1.4	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5C-SB-9.0-10.0 Collected: 12/10/2010 9:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.48	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-057-SA5B-SS-0.0-0.5 Collected: 12/10/2010 11:20:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.64	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z, S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.3	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	1.1	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	2.1	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-235-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.4	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	1.7	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-287-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.9	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-288-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	FD
AROCLOR 1254	1.2	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, S, FD
AROCLOR 1260	3.8		0.34	MDL	1.8	PQL	ug/Kg	J	S, FD
Aroclor 5460	2.7	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z, S, FD

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: DUP03-SA5B-QC-121010

Collected: 12/10/2010 9:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-057-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-235-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-287-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.6	J	1.3	MDL	3.9	PQL	ug/Kg	J	Z
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-288-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-290-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: DUP03-SA5B-QC-121010

Collected: 12/10/2010 9:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	27	J	18	MDL	350	PQL	ug/Kg	J	Z, FD

Sample ID: SL-005-SA5C-SB-4.0-5.0

Collected: 12/10/2010 3:29:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	23	J	19	MDL	380	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-008-SA5C-SB-4.0-5.0

Collected: 12/10/2010 12:18:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	21	J	19	MDL	380	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5C-SB-9.0-10.0

Collected: 12/10/2010 2:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	20	J	19	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA5C-SB-4.0-5.0

Collected: 12/10/2010 10:54:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	20	J	19	MDL	380	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA5C-SB-9.0-10.0

Collected: 12/10/2010 11:03:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	21	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5C-SB-4.0-5.0

Collected: 12/10/2010 9:39:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	21	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5C-SB-9.0-10.0

Collected: 12/10/2010 9:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	23	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-057-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	21	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	21	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	21	J	18	MDL	360	PQL	ug/Kg	J	Z
CHRYSENE	21	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	25	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	33	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-235-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	21	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-287-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	19	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-288-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	17	U	17	MDL	350	PQL	ug/Kg	UJ	FD

Sample ID: SL-290-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	29	J	18	MDL	360	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: DUP03-SA5B-QC-121010

Collected: 12/10/2010 9:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(A)ANTHRACENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(A)PYRENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	1.0	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: DUP03-SA5B-QC-121010

Collected: 12/10/2010 9:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	FD
CHRYSENE	0.95	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	1.6	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z, FD
INDENO(1,2,3-CD)PYRENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	FD
NAPHTHALENE	0.71	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	0.84	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z, FD
PYRENE	1.3	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z, FD

Sample ID: SL-005-SA5C-SB-9.0-10.0

Collected: 12/10/2010 3:39:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-008-SA5C-SB-4.0-5.0

Collected: 12/10/2010 12:18:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	0.89	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5C-SB-4.0-5.0

Collected: 12/10/2010 2:19:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.81	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.51	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5C-SB-9.0-10.0

Collected: 12/10/2010 2:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	0.75	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-010-SA5C-SB-4.0-5.0

Collected: 12/10/2010 10:54:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.3	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.99	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA5C-SB-9.0-10.0

Collected: 12/10/2010 11:03:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.92	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.84	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.2	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.78	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5C-SB-4.0-5.0

Collected: 12/10/2010 9:39:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.74	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5C-SB-9.0-10.0

Collected: 12/10/2010 9:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.81	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.60	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.74	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.78	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-057-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.80	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.59	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-234-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.57	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-235-SA5B-SS-0.0-0.5

Collected: 12/10/2010 11:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.5	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.99	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.0	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-287-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.62	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.97	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.83	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.7	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-288-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.84	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	1.0	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(A)PYRENE	1.5	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(B)FLUORANTHENE	4.1		0.70	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	1.1	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	1.6	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z, FD
CHRYSENE	2.6		0.35	MDL	1.7	PQL	ug/Kg	J	FD
FLUORANTHENE	2.8		0.70	MDL	1.7	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	0.99	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z, FD
NAPHTHALENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-288-SA5B-SS-0.0-0.5

Collected: 12/10/2010 9:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	1.6	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z, FD
PYRENE	2.2		0.70	MDL	1.7	PQL	ug/Kg	J	FD

Sample ID: SL-290-SA5B-SS-0.0-0.5

Collected: 12/10/2010 8:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	9.1	J	7.2	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	15	J	3.6	MDL	18	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A

Matrix: SO

Sample ID: SL-010-SA5C-SB-9.0-10.0

Collected: 12/10/2010 11:03:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	670	J	660	MDL	1600	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B

Matrix: SO

Sample ID: SL-005-SA5C-SB-4.0-5.0

Collected: 12/10/2010 3:29:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	190	J	120	MDL	580	PQL	ug/Kg	J	Z

Sample ID: SL-005-SA5C-SB-9.0-10.0

Collected: 12/10/2010 3:39:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	190	J	110	MDL	550	PQL	ug/Kg	J	Z
METHANOL	110	J	110	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5C-SB-4.0-5.0

Collected: 12/10/2010 2:19:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	180	J	110	MDL	530	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8015B

Matrix: SO

Sample ID: SL-009-SA5C-SB-9.0-10.0

Collected: 12/10/2010 2:28:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	190	J	110	MDL	560	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA5C-SB-4.0-5.0

Collected: 12/10/2010 10:54:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	210	J	110	MDL	570	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA5C-SB-9.0-10.0

Collected: 12/10/2010 11:03:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	180	J	110	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5C-SB-4.0-5.0

Collected: 12/10/2010 9:39:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	230	J	110	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5C-SB-9.0-10.0

Collected: 12/10/2010 9:45:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	200	J	110	MDL	540	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-005-SA5C-SB-4.0-5.0

Collected: 12/10/2010 3:29:00

Analysis Type: RES

Dilution: 0.94

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.81	J	0.26	MDL	4.3	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.09	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-005-SA5C-SB-9.0-10.0

Collected: 12/10/2010 3:39:00

Analysis Type: RES

Dilution: 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.4	J	0.23	MDL	3.9	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-005-SA5C-SB-9.0-10.0

Collected: 12/10/2010 3:39:00

Analysis Type: RES

Dilution: 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.12	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-008-SA5C-SB-4.0-5.0

Collected: 12/10/2010 12:18:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.0	J	0.28	MDL	4.6	PQL	ug/Kg	U	B
TOLUENE	0.12	J	0.09	MDL	4.6	PQL	ug/Kg	U	B

Sample ID: SL-009-SA5C-SB-4.0-5.0

Collected: 12/10/2010 2:19:00

Analysis Type: RES

Dilution: 1.04

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.1	J	0.27	MDL	4.4	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.09	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-009-SA5C-SB-9.0-10.0

Collected: 12/10/2010 2:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	7.7	J	7.5	MDL	8.9	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.8	J	0.27	MDL	4.5	PQL	ug/Kg	U	B
TOLUENE	0.13	J	0.09	MDL	4.5	PQL	ug/Kg	U	B

Sample ID: SL-010-SA5C-SB-4.0-5.0

Collected: 12/10/2010 10:54:00

Analysis Type: RES

Dilution: 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.6	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-010-SA5C-SB-9.0-10.0

Collected: 12/10/2010 11:03:00

Analysis Type: RES

Dilution: 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.5	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.12	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-011-SA5C-SB-4.0-5.0

Collected: 12/10/2010 9:39:00

Analysis Type: RES

Dilution: 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.94	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.08	MDL	4.2	PQL	ug/Kg	U	B

Sample ID: SL-011-SA5C-SB-9.0-10.0

Collected: 12/10/2010 9:45:00

Analysis Type: RES

Dilution: 0.93

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.0	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE035

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE035

EDD Filename: PrepDE035_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Sample ID	Type	Actual	Criteria	Units	Flag
SL-005-SA5C-SB-4.0-5.0 (RES)	Sampling To Analysis	17.00	14.00	DAYS	J(all detects) UJ(all non-detects)
SL-005-SA5C-SB-9.0-10.0 (RES)		17.00	14.00	DAYS	
SL-009-SA5C-SB-4.0-5.0 (RES)		17.00	14.00	DAYS	
SL-009-SA5C-SB-9.0-10.0 (RES)		17.00	14.00	DAYS	
SL-010-SA5C-SB-4.0-5.0 (RES)		17.00	14.00	DAYS	
SL-010-SA5C-SB-9.0-10.0 (RES)		17.00	14.00	DAYS	
SL-011-SA5C-SB-4.0-5.0 (RES)		17.00	14.00	DAYS	
SL-011-SA5C-SB-9.0-10.0 (RES)		17.00	14.00	DAYS	

Method Blank Outlier Report

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34908FB221851	12/17/2010 6:51:00 PM	PHOSPHORUS TIN	1.38 mg/Kg 1.13 mg/Kg	DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP03-SA5B-QC-121010(RES)	TIN	1.80 mg/Kg	1.80U mg/Kg
SL-005-SA5C-SB-4.0-5.0(RES)	TIN	2.19 mg/Kg	2.19U mg/Kg
SL-005-SA5C-SB-9.0-10.0(RES)	TIN	1.92 mg/Kg	1.92U mg/Kg
SL-008-SA5C-SB-4.0-5.0(RES)	TIN	2.70 mg/Kg	2.70U mg/Kg
SL-008-SA5C-SB-8.0-9.0(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-009-SA5C-SB-4.0-5.0(RES)	TIN	2.06 mg/Kg	2.06U mg/Kg
SL-009-SA5C-SB-9.0-10.0(RES)	TIN	2.46 mg/Kg	2.46U mg/Kg
SL-010-SA5C-SB-4.0-5.0(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-010-SA5C-SB-9.0-10.0(RES)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-011-SA5C-SB-4.0-5.0(RES)	TIN	2.43 mg/Kg	2.43U mg/Kg
SL-011-SA5C-SB-9.0-10.0(RES)	TIN	2.21 mg/Kg	2.21U mg/Kg
SL-057-SA5B-SS-0.0-0.5(RES)	TIN	2.41 mg/Kg	2.41U mg/Kg
SL-234-SA5B-SS-0.0-0.5(RES)	TIN	2.16 mg/Kg	2.16U mg/Kg
SL-235-SA5B-SS-0.0-0.5(RES)	TIN	2.31 mg/Kg	2.31U mg/Kg
SL-287-SA5B-SS-0.0-0.5(RES)	TIN	1.99 mg/Kg	1.99U mg/Kg
SL-288-SA5B-SS-0.0-0.5(RES)	TIN	1.85 mg/Kg	1.85U mg/Kg
SL-290-SA5B-SS-0.0-0.5(RES)	TIN	1.46 mg/Kg	1.46U mg/Kg

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB16B212115A	12/14/2010 9:15:00 PM	CHLOROFORM METHYLENE CHLORIDE TOLUENE	0.22 ug/Kg 1.3 ug/Kg 0.09 ug/Kg	SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8260B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-005-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.81 ug/Kg	4.3U ug/Kg
SL-005-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.11 ug/Kg	4.3U ug/Kg
SL-005-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.4 ug/Kg	3.9U ug/Kg
SL-005-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.12 ug/Kg	3.9U ug/Kg
SL-008-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.0 ug/Kg	4.6U ug/Kg
SL-008-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.12 ug/Kg	4.6U ug/Kg
SL-009-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	4.4U ug/Kg
SL-009-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.15 ug/Kg	4.4U ug/Kg
SL-009-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.8 ug/Kg	4.5U ug/Kg
SL-009-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.13 ug/Kg	4.5U ug/Kg
SL-010-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.6 ug/Kg	4.0U ug/Kg
SL-010-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.15 ug/Kg	4.0U ug/Kg
SL-010-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	4.0U ug/Kg
SL-010-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.12 ug/Kg	4.0U ug/Kg
SL-011-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.94 ug/Kg	4.2U ug/Kg
SL-011-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.11 ug/Kg	4.2U ug/Kg
SL-011-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.0 ug/Kg	4.0U ug/Kg
SL-011-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.09 ug/Kg	4.0U ug/Kg

Method: 8270C SIM

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLH34B260524	12/22/2010 5:24:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate	6.7 ug/Kg 6.1 ug/Kg	DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-288-SA5B-SS-0.0-0.5MSD (SL-288-SA5B-SS-0.0-0.5)	HEPTACHLOR	-	136	13.00-126.00	-	HEPTACHLOR	J (all detects)

Method: 8015M

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA5C-SB-9.0-10.0MS	EFH (C15-C20)	172	137	49.00-123.00	23 (20.00)	EFH (C15-C20)	J(all detects)
SL-011-SA5C-SB-9.0-10.0MSD	EFH (C21-C30)	799	504	49.00-123.00	29 (20.00)	EFH (C21-C30)	EFH (C30-C40)
(SL-011-SA5C-SB-9.0-10.0)	EFH (C30-C40)	1486	1361	49.00-123.00	-	EFH (C30-C40)	No Qual, >4x

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-288-SA5B-SS-0.0-0.5MS	ARSENIC	183	140	75.00-125.00	-	ARSENIC	J(all detects)
SL-288-SA5B-SS-0.0-0.5MSD	BERYLLIUM	128	-	75.00-125.00	-	BERYLLIUM	
(DUP03-SA5B-QC-121010	CADMIUM	149	136	75.00-125.00	-	CADMIUM	
SL-005-SA5C-SB-4.0-5.0	CHROMIUM	157	-	75.00-125.00	-	CHROMIUM	
SL-005-SA5C-SB-9.0-10.0	COBALT	135	-	75.00-125.00	-	COBALT	
SL-008-SA5C-SB-4.0-5.0	COPPER	137	-	75.00-125.00	-	COPPER	
SL-008-SA5C-SB-8.0-9.0	LEAD	162	137	75.00-125.00	-	LEAD	
SL-009-SA5C-SB-4.0-5.0	NICKEL	144	-	75.00-125.00	-	NICKEL	
SL-009-SA5C-SB-9.0-10.0	SILVER	149	135	75.00-125.00	-	SILVER	
SL-010-SA5C-SB-4.0-5.0	THALLIUM	149	129	75.00-125.00	-	THALLIUM	
SL-010-SA5C-SB-9.0-10.0	VANADIUM	168	140	75.00-125.00	-	VANADIUM	
SL-011-SA5C-SB-4.0-5.0	ZINC	178	143	75.00-125.00	-	ZINC	
SL-057-SA5B-SS-0.0-0.5							
SL-234-SA5B-SS-0.0-0.5							
SL-235-SA5B-SS-0.0-0.5							
SL-287-SA5B-SS-0.0-0.5							
SL-288-SA5B-SS-0.0-0.5							
SL-290-SA5B-SS-0.0-0.5)							
SL-288-SA5B-SS-0.0-0.5MSD	ANTIMONY	-	71	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
(DUP03-SA5B-QC-121010							
SL-005-SA5C-SB-4.0-5.0							
SL-005-SA5C-SB-9.0-10.0							
SL-008-SA5C-SB-4.0-5.0							
SL-008-SA5C-SB-8.0-9.0							
SL-009-SA5C-SB-4.0-5.0							
SL-009-SA5C-SB-9.0-10.0							
SL-010-SA5C-SB-4.0-5.0							
SL-010-SA5C-SB-9.0-10.0							
SL-011-SA5C-SB-4.0-5.0							
SL-011-SA5C-SB-9.0-10.0							
SL-057-SA5B-SS-0.0-0.5							
SL-234-SA5B-SS-0.0-0.5							
SL-235-SA5B-SS-0.0-0.5							
SL-287-SA5B-SS-0.0-0.5							
SL-288-SA5B-SS-0.0-0.5							
SL-290-SA5B-SS-0.0-0.5)							

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-288-SA5B-SS-0.0-0.5MS (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	SELENIUM	135	-	75.00-125.00	-	SELENIUM	J(all detects)
SL-288-SA5B-SS-0.0-0.5MS SL-288-SA5B-SS-0.0-0.5MSD (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	MOLYBDENUM	152	136	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-288-SA5B-SS-0.0-0.5MS SL-288-SA5B-SS-0.0-0.5MSD (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	BARIUM	185	151	75.00-125.00	-	BARIUM	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-288-SA5B-SS-0.0-0.5MS SL-288-SA5B-SS-0.0-0.5MSD (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	ALUMINUM MAGNESIUM PHOSPHORUS	731 146 182	616 - 140	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ALUMINUM MAGNESIUM PHOSPHORUS	J(all detects) Al, Mg No Qual, >4x
SL-288-SA5B-SS-0.0-0.5MSD (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	IRON	-	-11	75.00-125.00	-	IRON	No Qual, >4x
SL-288-SA5B-SS-0.0-0.5MS SL-288-SA5B-SS-0.0-0.5MSD (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	CALCIUM MANGANESE	803 163	1941 -	75.00-125.00 75.00-125.00	36 (20.00) 23 (20.00)	CALCIUM MANGANESE	J(all detects) UJ(all non-detects) Ca No Qual %R, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-288-SA5B-SS-0.0-0.5MS SL-288-SA5B-SS-0.0-0.5MSD (SL-288-SA5B-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT	226	-	39.00-167.00	76 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects)

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-288-SA5B-SS-0.0-0.5MSD (SL-288-SA5B-SS-0.0-0.5)	3,3'-DICHLOROBENZIDINE ANILINE BENZOIC ACID	- - -	- - -	16.00-119.00 35.00-95.00 10.00-173.00	40 (30.00) 31 (30.00) 71 (30.00)	3,3'-DICHLOROBENZIDINE ANILINE BENZOIC ACID	J(all detects)

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-288-SA5B-SS-0.0-0.5MS SL-288-SA5B-SS-0.0-0.5MSD (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	TITANIUM	209	171	75.00-125.00	-	TITANIUM	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-288-SA5B-SS-0.0-0.5MS (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	Nitrate-NO3	79	-	80.00-120.00	-	Nitrate-NO3	J(all detects) UJ(all non-detects)
SL-009-SA5C-SB-9.0-10.0MS (SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5)	FLUORIDE	72	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA5C-SB-9.0-10.0DUP (SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5)	FLUORIDE Nitrate-NO3	21 200	20.00 20.00	No Qual OK by difference
SL-288-SA5B-SS-0.0-0.5DUP (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	FLUORIDE Nitrate-NO3	200 200	20.00 20.00	No Qual OK by difference

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-288-SA5B-SS-0.0-0.5DUP (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	ALUMINUM LITHIUM MANGANESE TIN	22 23 47 23	20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Li, Sn No Qual OK by difference

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-288-SA5B-SS-0.0-0.5DUP	ANTIMONY	108	20.00	J(all detects) UJ(all non-detects) Sb, Be, Cd, Ti No Qual OK by difference
(DUP03-SA5B-QC-121010	BERYLLIUM	31	20.00	
SL -005-SA5C-SB-4.0-5.0	CADMIUM	41	20.00	
SL -005-SA5C-SB-9.0-10.0	CHROMIUM	27	20.00	
SL -008-SA5C-SB-4.0-5.0	COBALT	24	20.00	
SL -008-SA5C-SB-8.0-9.0	COPPER	22	20.00	
SL -009-SA5C-SB-4.0-5.0	MOLYBDENUM	33	20.00	
SL -009-SA5C-SB-9.0-10.0	NICKEL	24	20.00	
SL -010-SA5C-SB-4.0-5.0	THALLIUM	59	20.00	
SL -010-SA5C-SB-9.0-10.0	VANADIUM	25	20.00	
SL -011-SA5C-SB-4.0-5.0				
SL -011-SA5C-SB-9.0-10.0				
SL -057-SA5B-SS-0.0-0.5				
SL -234-SA5B-SS-0.0-0.5				
SL -235-SA5B-SS-0.0-0.5				
SL -287-SA5B-SS-0.0-0.5				
SL -288-SA5B-SS-0.0-0.5				
SL -290-SA5B-SS-0.0-0.5)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03514AQ241821A (DUP03 -SA5B-QC-121010 SL -057-SA5B-SS-0.0-0.5 SL -234-SA5B-SS-0.0-0.5 SL -235-SA5B-SS-0.0-0.5 SL -287-SA5B-SS-0.0-0.5 SL -288-SA5B-SS-0.0-0.5 SL -290-SA5B-SS-0.0-0.5)	DINOSEB	8	-	10.00-136.00	-	DINOSEB	J (all detects) R (all non-detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03519AQ241754A (DUP03 -SA5B-QC-121010 SL -057-SA5B-SS-0.0-0.5 SL -234-SA5B-SS-0.0-0.5 SL -235-SA5B-SS-0.0-0.5 SL -287-SA5B-SS-0.0-0.5 SL -288-SA5B-SS-0.0-0.5 SL -290-SA5B-SS-0.0-0.5)	METHOXYCHLOR	131	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P34908FQ221855 (DUP03 -SA5B-QC-121010 SL -005-SA5C-SB-4.0-5.0 SL -005-SA5C-SB-9.0-10.0 SL -008-SA5C-SB-4.0-5.0 SL -008-SA5C-SB-8.0-9.0 SL -009-SA5C-SB-4.0-5.0 SL -009-SA5C-SB-9.0-10.0 SL -010-SA5C-SB-4.0-5.0 SL -010-SA5C-SB-9.0-10.0 SL -011-SA5C-SB-4.0-5.0 SL -011-SA5C-SB-9.0-10.0 SL -057-SA5B-SS-0.0-0.5 SL -234-SA5B-SS-0.0-0.5 SL -235-SA5B-SS-0.0-0.5 SL -287-SA5B-SS-0.0-0.5 SL -288-SA5B-SS-0.0-0.5 SL -290-SA5B-SS-0.0-0.5)	ALUMINUM	76	-	80.00-120.00	-	ALUMINUM	No Qual SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-010-SA5C-SB-4.0-5.0	N-Nitrosodimethylamine-d6	156	50.00-150.00	All Target Analytes	J (all detects)

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-057-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	129	45.00-120.00	All Target Analytes	J(all detects)
SL-288-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	125	45.00-120.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
MOISTURE	4.3	4.8	11		No Qualifiers Applied

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
ALUMINUM	3760	3240	15	50.00	No Qualifiers Applied
BORON	3.02	2.88	5	50.00	
CALCIUM	7300	8080	10	50.00	
IRON	5330	5290	1	50.00	
LITHIUM	3.2	2.9	10	50.00	
MAGNESIUM	1030	1010	2	50.00	
MANGANESE	104	105	1	50.00	
PHOSPHORUS	320	357	11	50.00	
POTASSIUM	595	627	5	50.00	
SODIUM	51.4	54.3	5	50.00	
STRONTIUM	14.8	15.4	4	50.00	
TIN	1.85	1.80	3	50.00	
TITANIUM	310	291	6	50.00	
Zirconium	2.52	2.03	22	50.00	

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
ARSENIC	3.22	3.76	15	50.00	No Qualifiers Applied
BARIUM	21.9	24.2	10	50.00	
BERYLLIUM	0.161	0.149	8	50.00	
CADMIUM	0.0987	0.110	11	50.00	
CHROMIUM	13.2	13.7	4	50.00	
COBALT	2.34	2.52	7	50.00	
COPPER	3.30	4.05	20	50.00	
MOLYBDENUM	0.841	0.826	2	50.00	
NICKEL	7.44	8.00	7	50.00	
SELENIUM	0.193	0.117	49	50.00	
THALLIUM	0.0604	0.0571	6	50.00	
VANADIUM	15.3	16.5	8	50.00	
ZINC	13.0	15.6	18	50.00	
ANTIMONY	0.366	0.123	99	50.00	J(all detects)
LEAD	1.78	5.42	101	50.00	

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
HEXAVALENT CHROMIUM	1.0 U	0.30	200	50.00	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
MIREX	0.36 U	0.10	200	50.00	J(all detects) UJ(all non-detects)

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
AROCOR 1248	1.8 U	0.78	200	50.00	J(all detects) UJ(all non-detects)
AROCOR 1254	1.2	1.8 U	200	50.00	
AROCOR 1260	3.8	2.1	58	50.00	
Aroclor 5460	2.7	1.4	63	50.00	

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
ANTHRACENE	0.84	1.8 U	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)ANTHRACENE	1.0	1.8 U	200	50.00	
BENZO(A)PYRENE	1.5	1.8 U	200	50.00	
BENZO(B)FLUORANTHENE	4.1	1.0	122	50.00	
BENZO(G,H,I)PERYLENE	1.1	1.8 U	200	50.00	
BENZO(K)FLUORANTHENE	1.6	1.8 U	200	50.00	
CHRYSENE	2.6	0.95	93	50.00	
FLUORANTHENE	2.8	1.6	55	50.00	
INDENO(1,2,3-CD)PYRENE	0.99	1.8 U	200	50.00	
NAPHTHALENE	1.7 U	0.71	200	50.00	
PHENANTHRENE	1.6	0.84	62	50.00	
PYRENE	2.2	1.3	51	50.00	

Method: 8270C

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
BIS(2-ETHYLHEXYL)PHTHALATE	350 U	27	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
PH	8.71	8.70	0	50.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: PrepDE035_v1

eQAPP Name: CDM_SSFL_110509

Method: ASTM D1498

Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0- 0.5	DUP03-SA5B-QC- 121010			
Oxidation Reduction Potential	439	416	5		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA5C-SB-9.0-10.0	N-NITROSODIMETHYLAMINE	J	72.8	73.3	PQL	ng/Kg	J (all detects)
SL-010-SA5C-SB-9.0-10.0	N-NITROSODIMETHYLAMINE	J	70.0	73.0	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5C-SB-9.0-10.0	Nitrate-NO3	J	1.1	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5B-QC-121010	BORON	J	2.88	5.25	PQL	mg/Kg	J (all detects)
	SODIUM	J	54.3	105	PQL	mg/Kg	
	TIN	J	1.80	10.5	PQL	mg/Kg	
	Zirconium	J	2.03	5.25	PQL	mg/Kg	
SL-005-SA5C-SB-4.0-5.0	TIN	J	2.19	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.74	5.59	PQL	mg/Kg	
SL-005-SA5C-SB-9.0-10.0	TIN	J	1.92	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.06	5.34	PQL	mg/Kg	
SL-008-SA5C-SB-4.0-5.0	TIN	J	2.70	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.77	5.70	PQL	mg/Kg	
SL-008-SA5C-SB-8.0-9.0	BORON	J	5.01	5.42	PQL	mg/Kg	J (all detects)
	SODIUM	J	89.6	108	PQL	mg/Kg	
	TIN	J	2.74	10.8	PQL	mg/Kg	
SL-009-SA5C-SB-4.0-5.0	TIN	J	2.06	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.67	5.24	PQL	mg/Kg	
SL-009-SA5C-SB-9.0-10.0	TIN	J	2.46	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.33	5.43	PQL	mg/Kg	
SL-010-SA5C-SB-4.0-5.0	TIN	J	2.55	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.94	5.60	PQL	mg/Kg	
SL-010-SA5C-SB-9.0-10.0	TIN	J	2.58	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.48	5.42	PQL	mg/Kg	
SL-011-SA5C-SB-4.0-5.0	TIN	J	2.43	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.930	5.39	PQL	mg/Kg	
SL-011-SA5C-SB-9.0-10.0	TIN	J	2.21	10.4	PQL	mg/Kg	J (all detects)
SL-057-SA5B-SS-0.0-0.5	TIN	J	2.41	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.09	5.62	PQL	mg/Kg	
SL-234-SA5B-SS-0.0-0.5	SODIUM	J	106	107	PQL	mg/Kg	J (all detects)
	TIN	J	2.16	10.7	PQL	mg/Kg	
	Zirconium	J	1.78	5.36	PQL	mg/Kg	
SL-235-SA5B-SS-0.0-0.5	SODIUM	J	86.4	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.31	10.5	PQL	mg/Kg	
	Zirconium	J	1.09	5.25	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-287-SA5B-SS-0.0-0.5	BORON	J	4.78	5.30	PQL	mg/Kg	J (all detects)
	SODIUM	J	66.7	106	PQL	mg/Kg	
	TIN	J	1.99	10.6	PQL	mg/Kg	
	Zirconium	J	1.22	5.30	PQL	mg/Kg	
SL-288-SA5B-SS-0.0-0.5	BORON	J	3.02	5.07	PQL	mg/Kg	J (all detects)
	SODIUM	J	51.4	101	PQL	mg/Kg	
	TIN	J	1.85	10.1	PQL	mg/Kg	
	Zirconium	J	2.52	5.07	PQL	mg/Kg	
SL-290-SA5B-SS-0.0-0.5	TIN	J	1.46	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.03	5.36	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5B-QC-121010	ANTIMONY	J	0.123	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.117	0.412	PQL	mg/Kg	
	THALLIUM	J	0.0571	0.103	PQL	mg/Kg	
SL-005-SA5C-SB-4.0-5.0	SELENIUM	J	0.284	0.443	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0434	0.111	PQL	mg/Kg	
SL-005-SA5C-SB-9.0-10.0	ANTIMONY	J	0.143	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.160	0.431	PQL	mg/Kg	
	SILVER	J	0.0316	0.108	PQL	mg/Kg	
SL-008-SA5C-SB-4.0-5.0	SELENIUM	J	0.307	0.456	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0421	0.114	PQL	mg/Kg	
SL-008-SA5C-SB-8.0-9.0	ANTIMONY	J	0.150	0.213	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0604	0.106	PQL	mg/Kg	
	SELENIUM	J	0.215	0.425	PQL	mg/Kg	
SL-009-SA5C-SB-4.0-5.0	ANTIMONY	J	0.180	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.220	0.424	PQL	mg/Kg	
	SILVER	J	0.0214	0.106	PQL	mg/Kg	
SL-009-SA5C-SB-9.0-10.0	ANTIMONY	J	0.123	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0957	0.434	PQL	mg/Kg	
	SILVER	J	0.0204	0.109	PQL	mg/Kg	
SL-010-SA5C-SB-4.0-5.0	ANTIMONY	J	0.152	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.178	0.448	PQL	mg/Kg	
	SILVER	J	0.0461	0.112	PQL	mg/Kg	
SL-010-SA5C-SB-9.0-10.0	ANTIMONY	J	0.107	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.160	0.434	PQL	mg/Kg	
	SILVER	J	0.0196	0.108	PQL	mg/Kg	
SL-011-SA5C-SB-4.0-5.0	SELENIUM	J	0.213	0.431	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0422	0.108	PQL	mg/Kg	
SL-011-SA5C-SB-9.0-10.0	ANTIMONY	J	0.122	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.424	PQL	mg/Kg	
	SILVER	J	0.0214	0.106	PQL	mg/Kg	
SL-057-SA5B-SS-0.0-0.5	ANTIMONY	J	0.148	0.225	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.231	0.450	PQL	mg/Kg	
	SILVER	J	0.0416	0.112	PQL	mg/Kg	
SL-234-SA5B-SS-0.0-0.5	ANTIMONY	J	0.119	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.141	0.425	PQL	mg/Kg	
	SILVER	J	0.0378	0.106	PQL	mg/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-235-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.186	0.212	PQL	mg/Kg	J (all detects)
		J	0.110	0.424	PQL	mg/Kg	
		J	0.0302	0.106	PQL	mg/Kg	
SL-287-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.0875	0.210	PQL	mg/Kg	J (all detects)
		J	0.0751	0.420	PQL	mg/Kg	
		J	0.0148	0.105	PQL	mg/Kg	
SL-288-SA5B-SS-0.0-0.5	CADMIUM SELENIUM THALLIUM	J	0.0987	0.102	PQL	mg/Kg	J (all detects)
		J	0.193	0.410	PQL	mg/Kg	
		J	0.0604	0.102	PQL	mg/Kg	
SL-290-SA5B-SS-0.0-0.5	SELENIUM SILVER	J	0.180	0.417	PQL	mg/Kg	J (all detects)
		J	0.0258	0.104	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5B-QC-121010	HEXAVALENT CHROMIUM	J	0.30	1.1	PQL	mg/Kg	J (all detects)
SL-008-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.31	1.2	PQL	mg/Kg	J (all detects)
SL-008-SA5C-SB-8.0-9.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-010-SA5C-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.34	1.1	PQL	mg/Kg	J (all detects)
SL-057-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.42	1.2	PQL	mg/Kg	J (all detects)
SL-234-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-287-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.33	1.1	PQL	mg/Kg	J (all detects)
SL-290-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.29	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5C-SB-8.0-9.0	MERCURY	J	0.0165	0.108	PQL	mg/Kg	J (all detects)
SL-234-SA5B-SS-0.0-0.5	MERCURY	J	0.0082	0.106	PQL	mg/Kg	J (all detects)
SL-235-SA5B-SS-0.0-0.5	MERCURY	J	0.0186	0.107	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA5C-SB-4.0-5.0	ETHANOL	J	190	580	PQL	ug/Kg	J (all detects)
SL-005-SA5C-SB-9.0-10.0	ETHANOL METHANOL	J	190	550	PQL	ug/Kg	J (all detects)
		J	110	550	PQL	ug/Kg	
SL-009-SA5C-SB-4.0-5.0	ETHANOL	J	180	530	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA5C-SB-9.0-10.0	ETHANOL	J	190	560	PQL	ug/Kg	J (all detects)
SL-010-SA5C-SB-4.0-5.0	ETHANOL	J	210	570	PQL	ug/Kg	J (all detects)
SL-010-SA5C-SB-9.0-10.0	ETHANOL	J	180	550	PQL	ug/Kg	J (all detects)
SL-011-SA5C-SB-4.0-5.0	ETHANOL	J	230	550	PQL	ug/Kg	J (all detects)
SL-011-SA5C-SB-9.0-10.0	ETHANOL	J	200	540	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA5C-SB-4.0-5.0	EFH (C30-C40)	J	0.60	1.4	PQL	mg/Kg	J (all detects)
SL-005-SA5C-SB-9.0-10.0	EFH (C15-C20)	J	0.58	1.3	PQL	mg/Kg	J (all detects)
SL-009-SA5C-SB-9.0-10.0	EFH (C15-C20)	J	1.2	1.3	PQL	mg/Kg	J (all detects)
SL-010-SA5C-SB-9.0-10.0	EFH (C15-C20)	J	0.49	1.3	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5B-QC-121010	MIREX	J	0.10	0.36	PQL	ug/Kg	J (all detects)
SL-290-SA5B-SS-0.0-0.5	4,4'-DDT	J	0.21	0.36	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5B-QC-121010	AROCLOR 1248	J	0.78	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.4	3.5	PQL	ug/Kg	
SL-005-SA5C-SB-4.0-5.0	AROCLOR 1254	J	0.86	2.0	PQL	ug/Kg	J (all detects)
SL-005-SA5C-SB-9.0-10.0	AROCLOR 1248	J	1.4	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.92	1.9	PQL	ug/Kg	
	Aroclor 5460	J	1.7	3.6	PQL	ug/Kg	
SL-008-SA5C-SB-4.0-5.0	AROCLOR 1260	J	0.49	2.0	PQL	ug/Kg	J (all detects)
SL-009-SA5C-SB-4.0-5.0	AROCLOR 1254	J	0.91	1.8	PQL	ug/Kg	J (all detects)
SL-009-SA5C-SB-9.0-10.0	AROCLOR 1254	J	0.93	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.66	1.9	PQL	ug/Kg	
SL-010-SA5C-SB-9.0-10.0	AROCLOR 1260	J	0.44	1.9	PQL	ug/Kg	J (all detects)
SL-011-SA5C-SB-4.0-5.0	AROCLOR 1260	J	0.64	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.4	3.6	PQL	ug/Kg	
SL-011-SA5C-SB-9.0-10.0	AROCLOR 1260	J	0.48	1.8	PQL	ug/Kg	J (all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-057-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.64	2.0	PQL	ug/Kg	J (all detects)
SL-234-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.1	1.9	PQL	ug/Kg	
	Aroclor 5460	J	2.1	3.6	PQL	ug/Kg	
SL-235-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.7	3.6	PQL	ug/Kg	
SL-287-SA5B-SS-0.0-0.5	Aroclor 5460	J	1.9	3.6	PQL	ug/Kg	J (all detects)
SL-288-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.7	3.4	PQL	ug/Kg	

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-287-SA5B-SS-0.0-0.5	2,4-D	J	1.6	3.9	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.81	4.3	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.11	4.3	PQL	ug/Kg	
SL-005-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	1.4	3.9	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.12	3.9	PQL	ug/Kg	
SL-008-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.0	4.6	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.12	4.6	PQL	ug/Kg	
SL-009-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.1	4.4	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.15	4.4	PQL	ug/Kg	
SL-009-SA5C-SB-9.0-10.0	ACETONE	J	7.7	8.9	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.8	4.5	PQL	ug/Kg	
	TOLUENE	J	0.13	4.5	PQL	ug/Kg	
SL-010-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.6	4.0	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.15	4.0	PQL	ug/Kg	
SL-010-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	1.5	4.0	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.12	4.0	PQL	ug/Kg	
SL-011-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.94	4.2	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.11	4.2	PQL	ug/Kg	
SL-011-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	1.0	4.0	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.09	4.0	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5B-QC-121010	BIS(2-ETHYLHEXYL)PHTHALATE	J	27	350	PQL	ug/Kg	J (all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	380	PQL	ug/Kg	J (all detects)
SL-008-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	380	PQL	ug/Kg	J (all detects)
SL-009-SA5C-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	370	PQL	ug/Kg	J (all detects)
SL-010-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	380	PQL	ug/Kg	J (all detects)
SL-010-SA5C-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	370	PQL	ug/Kg	J (all detects)
SL-011-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	370	PQL	ug/Kg	J (all detects)
SL-011-SA5C-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	360	PQL	ug/Kg	J (all detects)
SL-057-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	390	PQL	ug/Kg	J (all detects)
SL-234-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	21	180	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	360	PQL	ug/Kg	
	CHRYSENE	J	21	180	PQL	ug/Kg	
	FLUORANTHENE	J	25	180	PQL	ug/Kg	
	PYRENE	J	33	180	PQL	ug/Kg	
SL-235-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	360	PQL	ug/Kg	J (all detects)
SL-287-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	360	PQL	ug/Kg	J (all detects)
SL-290-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	29	360	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5B-QC-121010	BENZO(B)FLUORANTHENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.95	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.71	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.84	1.8	PQL	ug/Kg	
	PYRENE	J	1.3	1.8	PQL	ug/Kg	
SL-005-SA5C-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.0	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.7	1.8	PQL	ug/Kg	
	PYRENE	J	1.7	1.8	PQL	ug/Kg	
SL-008-SA5C-SB-4.0-5.0	NAPHTHALENE	J	0.89	1.9	PQL	ug/Kg	J (all detects)
SL-009-SA5C-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.81	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.51	1.8	PQL	ug/Kg	
SL-009-SA5C-SB-9.0-10.0	BENZO(K)FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	0.75	1.9	PQL	ug/Kg	
SL-010-SA5C-SB-4.0-5.0	ANTHRACENE	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.4	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.99	1.9	PQL	ug/Kg	
SL-010-SA5C-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	0.92	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.84	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.3	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.2	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.5	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.78	1.8	PQL	ug/Kg	
	PYRENE	J	1.4	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE035

Laboratory: LL

EDD Filename: DE035_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5C-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.74	1.8	PQL	ug/Kg	
SL-011-SA5C-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.81	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.60	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.74	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.78	1.8	PQL	ug/Kg	
SL-057-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.80	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.59	1.9	PQL	ug/Kg	
SL-234-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.57	1.8	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.8	PQL	ug/Kg	
SL-235-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.5	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.99	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.0	1.8	PQL	ug/Kg	
SL-287-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.62	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.97	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.83	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.7	1.8	PQL	ug/Kg	
SL-288-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.84	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.0	1.7	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.5	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.1	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.6	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.99	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	1.7	PQL	ug/Kg	
SL-290-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	9.1	18	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	15	18	PQL	ug/Kg	

Method: 8315A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA5C-SB-9.0-10.0	FORMALDEHYDE	J	670	1600	PQL	ug/Kg	J (all detects)

LDC #: 25337G4 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: DE035 ADR
 Laboratory: Lancaster Laboratories

Date: 5/5/11
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ca, Fe, Mg > 4x) ^{2RPD art}
VII.	Duplicate Sample Analysis	N	DQ (Sb, Be, Cd, Li, Tl, Sn < 5x RL)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/UJ/A (Pb)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	—	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

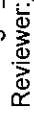
Validated Samples:

Soil

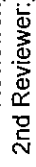
1	SL-011-SA5C-SB-4.0-5.0	11	SL-234-SA5B-SS-0.0-0.5	21		31	
2	SL-011-SA5C-SB-9.0-10.0	12	SL-235-SA5B-SS-0.0-0.5	22		32	
3	SL-288-SA5B-SS-0.0-0.5	13	SL-287-SA5B-SS-0.0-0.5	23		33	
4	SL-290-SA5B-SS-0.0-0.5	14	SL-005-SA5C-SB-4.0-5.0	24		34	
5	DUP03-SA5B-QC-121010	15	SL-005-SA5C-SB-9.0-10.0	25		35	
6	SL-010-SA5C-SB-4.0-5.0	16	SL-009-SA5C-SB-4.0-5.0	26		36	
7	SL-010-SA5C-SB-9.0-10.0	17	SL-009-SA5C-SB-9.0-10.0	27		37	
8	SL-008-SA5C-SB-4.0-5.0	18	SL-288-SA5B-SS-0.0-0.5MS	28		38	
9	SL-008-SA5C-SB-8.0-9.0	19	SL-288-SA5B-SS-0.0-0.5MSD	29		39	
10	SL-027-SA5B-SS-0.0-0.5	20	SL-288-SA5B-SS-0.0-0.5DUP	30		40	

Notes: _____

PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: 

METHOD: Trace Metals (EPA SW 846 Method 6020/7000) Soil preparation factor applied: 100x x (ICPMS: 2x dil)

2nd Reviewer: 

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All

			Sample Identification																
Analyte	Maximum ICB/CCB* (ug/l)	Blank Action Limit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Sb	0.72	0.72	0.22	0.12	0.37	0.27	0.12	0.15	0.11	0.24	0.15	0.15	0.12	0.19	0.087	0.27	0.14	0.18	0.12
Be	0.13	0.13																	



QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: DE035

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6162943BKG

Serial Dilution Lab Sample ID: 6162943L

Batch ID(s): P34908F, P34926E, P35508A

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		37024.7600		35601.2000		4		P
Antimony	121	1.7860		1.7855	B	0		MS
Arsenic	75	15.7400		13.9900		11		MS
Barium	137	106.8000		101.5000		5		MS
Beryllium	9	0.7839		0.7600	B	3		MS
Boron		29.7800	B	44.5000	U	100		P
Cadmium	111	0.4815	B	0.9000	U	100		MS
Calcium		71909.2700		71789.1500		0		P
Chromium	52	64.5500		62.3500		3		MS
Cobalt	59	11.4100		11.0850		3		MS
Copper	63	16.0900		15.6400		3		MS
Iron		52521.8200		51997.1000		1		P
Lead	208	8.6800		7.6200		12	E	MS
Lithium		31.2000		47.5000	B	52		P
Magnesium		10173.9300		10246.2000		1		P
Manganese		1022.5600		1042.4000		2		P
Molybdenum	98	4.1050		4.3240		5		MS
Nickel	60	36.3000		35.6900		2		MS
Phosphorus		3159.0300		3167.8500		0		P
Potassium		5866.1000		5950.8000		1		P
Selenium	78	0.9415	B	1.0000	U	100		MS
Silver	107	0.0600	U	0.3000	U			MS
Sodium		506.9400	B	1865.0000	U	100		P
Strontium		145.9500		142.6000		2		P
Thallium	203	0.2946	B	0.7500	U	100		MS
Tin		18.2700	B	50.0000	U	100		P
Titanium		3110.4200		3054.4000		2		P
Vanadium	51	74.7300		72.3000		3		MS
Zinc	66	63.4400		59.3500	B	6		MS
Zirconium		24.8400	B	42.0000	U	100		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:

P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:

U= Below MDL

B= Below LOQ

FLAGS:

E = Matrix Effects exist as proven by
Serial Dilution or Spiked Dilution

DE035 4076

SAMPLE DELIVERY GROUP

DE036

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3050B	6010B	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3050B	6020	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3060A	7199	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3550B	8081A	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3550B	8082	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3550B	8151A	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3550B	8270C	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3550B	8270C SIM	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	Gen Prep	9045M	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	METHOD	300.0	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	METHOD	314.0	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	METHOD	7471A	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3050B	6010B	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3050B	6020	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3060A	7199	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3550B	8081A	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3550B	8082	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3550B	8151A	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3550B	8270C	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3550B	8270C SIM	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	Gen Prep	9045M	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	METHOD	300.0	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	METHOD	314.0	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	METHOD	7471A	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3050B	6010B	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3060A	7199	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3550B	8081A	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3550B	8082	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3550B	8151A	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3550B	8270C	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3550B	8270C SIM	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	Gen Prep	9045M	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	METHOD	300.0	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	METHOD	314.0	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	METHOD	7471A	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3050B	6010B	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3050B	6020	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3060A	7199	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3550B	8081A	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3550B	8082	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3550B	8151A	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3550B	8270C	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3550B	8270C SIM	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	Gen Prep	9045M	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	METHOD	300.0	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	METHOD	314.0	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	METHOD	7471A	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3050B	6010B	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3050B	6020	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3060A	7199	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3550B	8081A	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3550B	8082	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3550B	8151A	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3550B	8270C	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3550B	8270C SIM	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	Gen Prep	9045M	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	METHOD	300.0	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	METHOD	314.0	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	METHOD	7471A	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3050B	6010B	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3050B	6020	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3060A	7199	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3550B	8081A	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3550B	8082	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3550B	8151A	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3550B	8270C	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3550B	8270C SIM	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	Gen Prep	9045M	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	METHOD	300.0	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	METHOD	314.0	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	METHOD	7471A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3050B	6010B	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3050B	6020	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3060A	7199	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3550B	8081A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3550B	8082	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3550B	8151A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3550B	8270C	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3550B	8270C SIM	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	Gen Prep	9045M	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	METHOD	300.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	METHOD	314.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	METHOD	7471A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3050B	6010B	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3050B	6020	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3060A	7199	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3550B	8081A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3550B	8082	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3550B	8151A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3550B	8270C	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3550B	8270C SIM	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	METHOD	300.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	METHOD	314.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	METHOD	7471A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3050B	6010B	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3050B	6020	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3550B	8081A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3550B	8082	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3550B	8151A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3550B	8270C	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3550B	8270C SIM	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	METHOD	7471A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	3050B	6010B	III

III = EPA Level 3 Data Review
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FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	3050B	6020	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	3060A	7199	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	Gen Prep	9045M	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	METHOD	300.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	METHOD	314.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	METHOD	7471A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	P163599	N	METHOD	6850	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	P163599M241911A	MSD	METHOD	6850	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	P163599R241905A	MS	METHOD	6850	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3050B	6010B	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3050B	6020	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3060A	7199	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3550B	8081A	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3550B	8082	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3550B	8151A	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3550B	8270C	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3550B	8270C SIM	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	Gen Prep	9045M	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	METHOD	300.0	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	METHOD	314.0	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	METHOD	7471A	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3050B	6010B	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3050B	6020	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3060A	7199	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3550B	8081A	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3550B	8151A	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3550B	8270C	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3550B	8270C SIM	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	Gen Prep	9045M	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	METHOD	300.0	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	METHOD	314.0	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	METHOD	7471A	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3050B	6010B	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3050B	6020	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3060A	7199	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3550B	8081A	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3550B	8082	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3550B	8151A	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3550B	8270C	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3550B	8270C SIM	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	Gen Prep	9045M	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	METHOD	300.0	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	METHOD	314.0	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	METHOD	7471A	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3050B	6010B	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3050B	6020	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3060A	7199	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3550B	8081A	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3550B	8082	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3550B	8151A	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3550B	8270C SIM	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	Gen Prep	9045M	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	METHOD	300.0	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	METHOD	314.0	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	METHOD	7471A	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3050B	6010B	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3050B	6020	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3060A	7199	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3550B	8081A	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3550B	8082	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3550B	8151A	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3550B	8270C	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3550B	8270C SIM	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	Gen Prep	9045M	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	METHOD	300.0	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	METHOD	314.0	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	METHOD	7471A	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3050B	6010B	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3050B	6020	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3060A	7199	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3550B	8081A	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3550B	8082	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3550B	8151A	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3550B	8270C	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3550B	8270C SIM	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	Gen Prep	9045M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	METHOD	300.0	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	METHOD	314.0	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	METHOD	7471A	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3050B	6010B	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3050B	6020	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3060A	7199	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3550B	8081A	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3550B	8082	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3550B	8151A	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3550B	8270C	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3550B	8270C SIM	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	Gen Prep	9045M	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	METHOD	300.0	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	METHOD	314.0	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	METHOD	7471A	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3050B	6010B	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3050B	6020	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3060A	7199	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3550B	8081A	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3550B	8082	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3550B	8151A	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3550B	8270C	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3550B	8270C SIM	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	Gen Prep	9045M	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	METHOD	300.0	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	METHOD	7471A	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5DUP	P163610D271838B	DUP	METHOD	300.0	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5MS	P163610R271852B	MS	METHOD	300.0	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3050B	6010B	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3050B	6020	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3060A	7199	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3550B	8081A	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3550B	8082	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3550B	8151A	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3550B	8270C	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3550B	8270C SIM	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	Gen Prep	9045M	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	METHOD	300.0	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	METHOD	314.0	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	METHOD	6850	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	METHOD	7471A	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5DUP	P163618D272230B	DUP	METHOD	314.0	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5DUP	P163618D291430B	DUP	Gen Prep	9045M	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5MS	P163618R272254B	MS	METHOD	314.0	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3050B	6010B	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3050B	6020	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3060A	7199	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3550B	8081A	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3550B	8082	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3550B	8151A	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3550B	8270C SIM	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	Gen Prep	9045M	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	METHOD	300.0	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	METHOD	314.0	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	METHOD	7471A	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3050B	6010B	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3050B	6020	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3060A	7199	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3550B	8081A	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3550B	8082	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3550B	8151A	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3550B	8270C	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3550B	8270C SIM	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	Gen Prep	9045M	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	METHOD	300.0	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	METHOD	314.0	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	METHOD	7471A	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3050B	6010B	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3050B	6020	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3060A	7199	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3550B	8081A	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3550B	8082	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3550B	8151A	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3550B	8270C	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3550B	8270C SIM	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	Gen Prep	9045M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	METHOD	300.0	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	METHOD	314.0	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	METHOD	7471A	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3050B	6010B	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3050B	6020	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3060A	7199	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3550B	8081A	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3550B	8082	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3550B	8151A	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3550B	8270C	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3550B	8270C SIM	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	Gen Prep	9045M	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	METHOD	300.0	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	METHOD	314.0	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-071-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-072-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.84	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-073-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.87	J	0.84	MDL	1.1	PQL	mg/Kg	J	Z, Q

Sample ID: SL-074-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-076-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-078-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-083-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-084-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.88	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-139-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.1		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-301-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: GENCHEM

Method: 314.0

Matrix: SO

Sample ID: SL-086-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	11.8	J	9.6	MDL	31.8	PQL	ug/Kg	J	Z

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: DUP04-SA5B-QC-121310

Collected: 12/13/2010 10:15:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	102	J	39.6	MDL	106	PQL	mg/Kg	J	Z

Sample ID: DUP04-SA5B-QC-121310

Collected: 12/13/2010 10:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.42	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.10	J	0.893	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SED-029-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:52:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	86.8	J	39.7	MDL	106	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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ADR version 1.3.0.71

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SED-029-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.76	J	0.948	MDL	5.32	PQL	mg/Kg	J	Z
TIN	2.05	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

Sample ID: SED-030-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:13:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	78.9	J	42.8	MDL	115	PQL	mg/Kg	J	Z

Sample ID: SED-030-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:13:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.34	J	1.15	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	1.44	J	0.965	MDL	5.74	PQL	mg/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5

Collected: 12/13/2010 9:20:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	54.3	J	39.9	MDL	107	PQL	mg/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5

Collected: 12/13/2010 9:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.03	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	0.920	J	0.897	MDL	5.34	PQL	mg/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5

Collected: 12/13/2010 10:19:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	62.3	J	39.9	MDL	107	PQL	mg/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5

Collected: 12/13/2010 10:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.27	J	0.952	MDL	5.35	PQL	mg/Kg	J	Z
TIN	1.82	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.05	J	0.898	MDL	5.35	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-071-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.15	J	0.931	MDL	5.23	PQL	mg/Kg	J	Z
TIN	2.40	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.01	J	0.879	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:48:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	98.9	J	37.5	MDL	101	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.20	J	1.01	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.32	J	0.845	MDL	5.03	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:30:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	87.5	J	37.7	MDL	101	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.90	J	0.899	MDL	5.05	PQL	mg/Kg	J	Z
TIN	2.03	J	1.01	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.75	J	0.848	MDL	5.05	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.88	J	0.923	MDL	5.19	PQL	mg/Kg	J	Z
TIN	2.34	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.49	J	0.871	MDL	5.19	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-076-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.78	J	0.936	MDL	5.26	PQL	mg/Kg	J	Z
TIN	2.39	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-078-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.77	J	0.944	MDL	5.30	PQL	mg/Kg	J	Z
TIN	2.09	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.26	J	0.891	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:49:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	95.9	J	38.5	MDL	103	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.46	J	0.919	MDL	5.16	PQL	mg/Kg	J	Z
TIN	2.24	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.82	J	0.868	MDL	5.16	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:46:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	86.4	J	40.4	MDL	108	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.91	J	0.964	MDL	5.42	PQL	mg/Kg	J	Z
TIN	2.45	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.39	J	0.910	MDL	5.42	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-086-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:45:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	71.0	J	38.4	MDL	103	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	1.98	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.95	J	0.866	MDL	5.15	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.20	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.43	J	0.874	MDL	5.20	PQL	mg/Kg	J	Z

Sample ID: SL-092-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.05	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	3.79	J	0.937	MDL	5.57	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.33	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	5.02	J	0.918	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.72	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	3.64	J	0.938	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SL-236-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:10:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.25	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-236-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:10:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.19	J	0.884	MDL	5.26	PQL	mg/Kg	J	Z

Sample ID: SL-301-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.44	J	0.947	MDL	5.32	PQL	mg/Kg	J	Z
TIN	3.24	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.67	J	0.894	MDL	5.32	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP04-SA5B-QC-121310

Collected: 12/13/2010 10:15:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.152	J	0.0417	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: DUP04-SA5B-QC-121310

Collected: 12/13/2010 10:15:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.750		0.0521	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: DUP04-SA5B-QC-121310

Collected: 12/13/2010 10:15:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	135		0.113	MDL	0.417	PQL	mg/Kg	J	E, A

Sample ID: DUP04-SA5B-QC-121310

Collected: 12/13/2010 10:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.136	J	0.0625	MDL	0.208	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	7.83		0.0625	MDL	0.417	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.771		0.0167	MDL	0.104	PQL	mg/Kg	J	Q, E
CADMIUM	0.382		0.0375	MDL	0.104	PQL	mg/Kg	J	Q, FD
CHROMIUM	28.8		0.125	MDL	0.417	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP04-SA5B-QC-121310

Collected: 12/13/2010 10:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	9.00		0.0208	MDL	0.104	PQL	mg/Kg	J	Q, E
COPPER	15.1		0.0688	MDL	0.417	PQL	mg/Kg	J	Q, E
LEAD	11.3		0.0108	MDL	0.208	PQL	mg/Kg	J	Q, E
NICKEL	17.1		0.104	MDL	0.417	PQL	mg/Kg	J	Q, E
SILVER	1.22		0.0125	MDL	0.104	PQL	mg/Kg	J	Q, FD

Sample ID: SED-029-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:52:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0434	MDL	0.434	PQL	mg/Kg	J	Z

Sample ID: SED-029-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:52:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.694		0.0543	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SED-029-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:52:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	100		0.117	MDL	0.434	PQL	mg/Kg	J	E, A

Sample ID: SED-029-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:52:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.191	J	0.0651	MDL	0.217	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	6.15		0.0651	MDL	0.434	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.463		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.902		0.0391	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	23.0		0.130	MDL	0.434	PQL	mg/Kg	J	Q
COBALT	6.94		0.0217	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	17.8		0.0717	MDL	0.434	PQL	mg/Kg	J	Q, E
LEAD	50.6		0.0113	MDL	0.217	PQL	mg/Kg	J	Q, E
NICKEL	15.1		0.109	MDL	0.434	PQL	mg/Kg	J	Q, E
SILVER	0.147		0.0130	MDL	0.109	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-030-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:13:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.209	J	0.0478	MDL	0.478	PQL	mg/Kg	J	Z

Sample ID: SED-030-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:13:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.876		0.0597	MDL	0.119	PQL	mg/Kg	J	Q

Sample ID: SED-030-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:13:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	202		0.129	MDL	0.478	PQL	mg/Kg	J	E, A

Sample ID: SED-030-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:13:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.115	J	0.0717	MDL	0.239	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	7.83		0.0717	MDL	0.478	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.785		0.0191	MDL	0.119	PQL	mg/Kg	J	Q, E
CADMIUM	0.461		0.0430	MDL	0.119	PQL	mg/Kg	J	Q
CHROMIUM	33.4		0.143	MDL	0.478	PQL	mg/Kg	J	Q
COBALT	9.86		0.0239	MDL	0.119	PQL	mg/Kg	J	Q, E
COPPER	18.1		0.0789	MDL	0.478	PQL	mg/Kg	J	Q, E
LEAD	19.8		0.0124	MDL	0.239	PQL	mg/Kg	J	Q, E
NICKEL	22.2		0.119	MDL	0.478	PQL	mg/Kg	J	Q, E
SILVER	0.0806	J	0.0143	MDL	0.119	PQL	mg/Kg	J	Z, Q

Sample ID: SED-031-SIV-SD-0.0-0.5

Collected: 12/13/2010 9:20:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.151	J	0.0440	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5

Collected: 12/13/2010 9:20:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.584		0.0550	MDL	0.110	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-031-SIV-SD-0.0-0.5

Collected: 12/13/2010 9:20:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.119	MDL	0.440	PQL	mg/Kg	J	E, A

Sample ID: SED-031-SIV-SD-0.0-0.5

Collected: 12/13/2010 9:20:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0660	U	0.0660	MDL	0.220	PQL	mg/Kg	R	Q
ARSENIC	5.90		0.0660	MDL	0.440	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.546		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.255		0.0396	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	25.1		0.132	MDL	0.440	PQL	mg/Kg	J	Q
COBALT	7.18		0.0220	MDL	0.110	PQL	mg/Kg	J	Q, E
COPPER	12.7		0.0726	MDL	0.440	PQL	mg/Kg	J	Q, E
LEAD	20.2		0.0114	MDL	0.220	PQL	mg/Kg	J	Q, E
NICKEL	15.1		0.110	MDL	0.440	PQL	mg/Kg	J	Q, E
SILVER	0.0557	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q

Sample ID: SED-040-SIV-SD-0.0-0.5

Collected: 12/13/2010 10:19:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.192		0.0393	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SED-040-SIV-SD-0.0-0.5

Collected: 12/13/2010 10:19:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0436	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5

Collected: 12/13/2010 10:19:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.471		0.0545	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SED-040-SIV-SD-0.0-0.5

Collected: 12/13/2010 10:19:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.118	MDL	0.436	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-040-SIV-SD-0.0-0.5

Collected: 12/13/2010 10:19:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0654	U	0.0654	MDL	0.218	PQL	mg/Kg	R	Q
ARSENIC	4.31		0.0654	MDL	0.436	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.503		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E
CHROMIUM	20.5		0.131	MDL	0.436	PQL	mg/Kg	J	Q
COBALT	6.78		0.0218	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	9.21		0.0720	MDL	0.436	PQL	mg/Kg	J	Q, E
LEAD	10.8		0.0113	MDL	0.218	PQL	mg/Kg	J	Q, E
NICKEL	13.0		0.109	MDL	0.436	PQL	mg/Kg	J	Q, E
SILVER	0.0217	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q

Sample ID: SL-071-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:09:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0935	J	0.0423	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:09:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.620		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:09:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.114	MDL	0.423	PQL	mg/Kg	J	E, A

Sample ID: SL-071-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:09:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0634	MDL	0.211	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	6.17		0.0634	MDL	0.423	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.693		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.210		0.0380	MDL	0.106	PQL	mg/Kg	J	Q, FD
CHROMIUM	25.5		0.127	MDL	0.423	PQL	mg/Kg	J	Q
COBALT	7.36		0.0211	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	11.9		0.0697	MDL	0.423	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-071-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:09:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	9.18		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	14.8		0.106	MDL	0.423	PQL	mg/Kg	J	Q, E
SILVER	0.241		0.0127	MDL	0.106	PQL	mg/Kg	J	Q, FD

Sample ID: SL-072-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:48:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.114	J	0.0406	MDL	0.406	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:48:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.694		0.0508	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-072-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:48:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	135		0.110	MDL	0.406	PQL	mg/Kg	J	E, A

Sample ID: SL-072-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:48:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0917	J	0.0609	MDL	0.203	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	6.07		0.0609	MDL	0.406	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.676		0.0162	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.411		0.0366	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	25.1		0.122	MDL	0.406	PQL	mg/Kg	J	Q
COBALT	7.26		0.0203	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	12.6		0.0670	MDL	0.406	PQL	mg/Kg	J	Q, E
LEAD	13.0		0.0106	MDL	0.203	PQL	mg/Kg	J	Q, E
NICKEL	14.5		0.102	MDL	0.406	PQL	mg/Kg	J	Q, E
SILVER	3.17		0.0122	MDL	0.102	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-073-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:30:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.138	J	0.0412	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:30:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.956		0.0515	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-073-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:30:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	153		0.111	MDL	0.412	PQL	mg/Kg	J	E, A

Sample ID: SL-073-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:30:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0768	J	0.0618	MDL	0.206	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	6.02		0.0618	MDL	0.412	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.721		0.0165	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.291		0.0371	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	28.2		0.124	MDL	0.412	PQL	mg/Kg	J	Q
COBALT	7.93		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	14.5		0.0680	MDL	0.412	PQL	mg/Kg	J	Q, E
LEAD	11.2		0.0107	MDL	0.206	PQL	mg/Kg	J	Q, E
NICKEL	17.9		0.103	MDL	0.412	PQL	mg/Kg	J	Q, E
SILVER	0.298		0.0124	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-074-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:15:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.315	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:15:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.725		0.0539	MDL	0.108	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-074-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:15:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	140		0.116	MDL	0.431	PQL	mg/Kg	J	E, A

Sample ID: SL-074-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0647	U	0.0647	MDL	0.216	PQL	mg/Kg	R	Q
ARSENIC	6.82		0.0647	MDL	0.431	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.723		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.305		0.0388	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	29.6		0.129	MDL	0.431	PQL	mg/Kg	J	Q
COBALT	7.36		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	16.8		0.0712	MDL	0.431	PQL	mg/Kg	J	Q, E
LEAD	12.5		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	17.7		0.108	MDL	0.431	PQL	mg/Kg	J	Q, E
SILVER	0.405		0.0129	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-076-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:28:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0425	MDL	0.425	PQL	mg/Kg	J	Z

Sample ID: SL-076-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:28:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.504		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-076-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:28:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	135		0.115	MDL	0.425	PQL	mg/Kg	J	E, A

Sample ID: SL-076-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:28:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0842	J	0.0638	MDL	0.213	PQL	mg/Kg	J	Z, Q, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-076-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:28:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.92		0.0638	MDL	0.425	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.634		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.211		0.0383	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	31.1		0.128	MDL	0.425	PQL	mg/Kg	J	Q
COBALT	8.21		0.0213	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	15.5		0.0701	MDL	0.425	PQL	mg/Kg	J	Q, E
LEAD	7.96		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, E
NICKEL	19.7		0.106	MDL	0.425	PQL	mg/Kg	J	Q, E
SILVER	0.0363	J	0.0128	MDL	0.106	PQL	mg/Kg	J	Z, Q

Sample ID: SL-078-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:10:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.179	J	0.0432	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:10:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.657		0.0540	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-078-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:10:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	166		0.117	MDL	0.432	PQL	mg/Kg	J	E, A

Sample ID: SL-078-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.149	J	0.0649	MDL	0.216	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	6.22		0.0649	MDL	0.432	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.754		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.865		0.0389	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	31.0		0.130	MDL	0.432	PQL	mg/Kg	J	Q
COBALT	11.3		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	18.9		0.0713	MDL	0.432	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-078-SA5B-SS-0.0-0.5			Collected: 12/13/2010 11:10:00			Analysis Type: RES		Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	17.7		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	21.0		0.108	MDL	0.432	PQL	mg/Kg	J	Q, E
SILVER	1.65		0.0130	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-083-SA5B-SS-0.0-0.5			Collected: 12/13/2010 10:49:00		Analysis Type: REA2			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.176	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5		Collected: 12/13/2010 10:49:00		Analysis Type: REA3		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.958		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-083-SA5B-SS-0.0-0.5		Collected: 12/13/2010 10:49:00		Analysis Type: REA4		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	172		0.114	MDL	0.421	PQL	mg/Kg	J	E, A

Sample ID: SL-083-SA5B-SS-0.0-0.5		Collected: 12/13/2010 10:49:00		Analysis Type: RES		Dilution: 2			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.249		0.0632	MDL	0.211	PQL	mg/Kg	J	Q, Q, E
ARSENIC	10.2		0.0632	MDL	0.421	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.859		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	1.69		0.0379	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	41.4		0.126	MDL	0.421	PQL	mg/Kg	J	Q
COBALT	10.0		0.0211	MDL	0.105	PQL	mg/Kg	J	Q, E
COPPER	25.9		0.0695	MDL	0.421	PQL	mg/Kg	J	Q, E
LEAD	77.7		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	23.0		0.105	MDL	0.421	PQL	mg/Kg	J	Q, E
SILVER	0.243		0.0126	MDL	0.105	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-084-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:46:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.203	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:46:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.552		0.0547	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-084-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:46:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	102		0.118	MDL	0.438	PQL	mg/Kg	J	E, A

Sample ID: SL-084-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:46:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0656	U	0.0656	MDL	0.219	PQL	mg/Kg	R	Q
ARSENIC	5.67		0.0656	MDL	0.438	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.588		0.0175	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.244		0.0394	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	23.6		0.131	MDL	0.438	PQL	mg/Kg	J	Q
COBALT	6.96		0.0219	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	12.2		0.0722	MDL	0.438	PQL	mg/Kg	J	Q, E
LEAD	7.40		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	13.9		0.109	MDL	0.438	PQL	mg/Kg	J	Q, E
SILVER	0.0361	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q

Sample ID: SL-086-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:45:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.0420	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:45:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.902		0.0526	MDL	0.105	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-086-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:45:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	122		0.114	MDL	0.420	PQL	mg/Kg	J	E, A

Sample ID: SL-086-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0631	U	0.0631	MDL	0.210	PQL	mg/Kg	R	Q
ARSENIC	5.85		0.0631	MDL	0.420	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.729		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.287		0.0378	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	22.9		0.126	MDL	0.420	PQL	mg/Kg	J	Q
COBALT	7.16		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, E
COPPER	10.5		0.0694	MDL	0.420	PQL	mg/Kg	J	Q, E
LEAD	9.17		0.0109	MDL	0.210	PQL	mg/Kg	J	Q, E
NICKEL	13.9		0.105	MDL	0.420	PQL	mg/Kg	J	Q, E
SILVER	0.0435	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z, Q

Sample ID: SL-089-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:10:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.123	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:10:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	11.2		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-089-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:10:00

Analysis Type: REA4

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	155		0.287	MDL	1.06	PQL	mg/Kg	J	E, A

Sample ID: SL-089-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.297		0.0637	MDL	0.212	PQL	mg/Kg	J	Q, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-089-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.50		0.0637	MDL	0.424	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.654		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.664		0.0382	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	38.6		0.127	MDL	0.424	PQL	mg/Kg	J	Q
COBALT	7.96		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	19.4		0.0700	MDL	0.424	PQL	mg/Kg	J	Q, E
LEAD	34.0		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	19.8		0.106	MDL	0.424	PQL	mg/Kg	J	Q, E
SILVER	0.0831	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q

Sample ID: SL-092-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:27:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.320	J	0.0446	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-092-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:27:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.606		0.0557	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-092-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:27:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	147		0.120	MDL	0.446	PQL	mg/Kg	J	E, A

Sample ID: SL-092-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:27:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0680	J	0.0669	MDL	0.223	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	8.56		0.0669	MDL	0.446	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.867		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.285		0.0401	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	43.1		0.134	MDL	0.446	PQL	mg/Kg	J	Q
COBALT	12.3		0.0223	MDL	0.111	PQL	mg/Kg	J	Q, E
COPPER	19.4		0.0736	MDL	0.446	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-092-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:27:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	12.7		0.0116	MDL	0.223	PQL	mg/Kg	J	Q, E
NICKEL	23.3		0.111	MDL	0.446	PQL	mg/Kg	J	Q, E
SILVER	0.0392	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z, Q

Sample ID: SL-103-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.273	J	0.0446	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.455		0.0557	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-103-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:25:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	163		0.120	MDL	0.446	PQL	mg/Kg	J	E, A

Sample ID: SL-103-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0708	J	0.0669	MDL	0.223	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	8.89		0.0669	MDL	0.446	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.976		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.252		0.0401	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	45.8		0.134	MDL	0.446	PQL	mg/Kg	J	Q
COBALT	14.0		0.0223	MDL	0.111	PQL	mg/Kg	J	Q, E
COPPER	19.4		0.0736	MDL	0.446	PQL	mg/Kg	J	Q, E
LEAD	13.6		0.0116	MDL	0.223	PQL	mg/Kg	J	Q, E
NICKEL	23.7		0.111	MDL	0.446	PQL	mg/Kg	J	Q, E
SILVER	0.0321	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-139-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:04:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.152	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:04:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.26		0.0548	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-139-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:04:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	150		0.118	MDL	0.438	PQL	mg/Kg	J	E, A

Sample ID: SL-139-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:04:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0657	U	0.0657	MDL	0.219	PQL	mg/Kg	R	Q
ARSENIC	7.15		0.0657	MDL	0.438	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.869		0.0175	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.200		0.0394	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	30.4		0.131	MDL	0.438	PQL	mg/Kg	J	Q
COBALT	8.20		0.0219	MDL	0.110	PQL	mg/Kg	J	Q, E
COPPER	13.1		0.0723	MDL	0.438	PQL	mg/Kg	J	Q, E
LEAD	9.99		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	18.1		0.110	MDL	0.438	PQL	mg/Kg	J	Q, E
SILVER	0.0876	J	0.0131	MDL	0.110	PQL	mg/Kg	J	Z, Q

Sample ID: SL-236-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:10:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.160	J	0.0417	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-236-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:10:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.843		0.0521	MDL	0.104	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-236-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:10:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	130		0.113	MDL	0.417	PQL	mg/Kg	J	E, A

Sample ID: SL-236-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.152	J	0.0625	MDL	0.208	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	5.85		0.0625	MDL	0.417	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.538		0.0167	MDL	0.104	PQL	mg/Kg	J	Q, E
CADMIUM	0.377		0.0375	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	27.9		0.125	MDL	0.417	PQL	mg/Kg	J	Q
COBALT	8.08		0.0208	MDL	0.104	PQL	mg/Kg	J	Q, E
COPPER	14.7		0.0688	MDL	0.417	PQL	mg/Kg	J	Q, E
LEAD	10.6		0.0108	MDL	0.208	PQL	mg/Kg	J	Q, E
NICKEL	16.9		0.104	MDL	0.417	PQL	mg/Kg	J	Q, E
SILVER	0.0265	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z, Q

Sample ID: SL-301-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:00:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.164	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-301-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:00:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.834		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-301-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:00:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	167		0.114	MDL	0.422	PQL	mg/Kg	J	E, A

Sample ID: SL-301-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.120	J	0.0633	MDL	0.211	PQL	mg/Kg	J	Z, Q, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-301-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.79		0.0633	MDL	0.422	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.915		0.0169	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.902		0.0380	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	38.1		0.127	MDL	0.422	PQL	mg/Kg	J	Q
COBALT	9.42		0.0211	MDL	0.105	PQL	mg/Kg	J	Q, E
COPPER	24.2		0.0696	MDL	0.422	PQL	mg/Kg	J	Q, E
LEAD	15.3		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	24.4		0.105	MDL	0.422	PQL	mg/Kg	J	Q, E
SILVER	3.63		0.0127	MDL	0.105	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: DUP04-SA5B-QC-121310

Collected: 12/13/2010 10:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.76	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z, FD

Sample ID: SED-030-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:13:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.70	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5

Collected: 12/13/2010 10:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.21	U	0.21	MDL	1.1	PQL	mg/Kg	UJ	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-072-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.86	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.91	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.58	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-092-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.39	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.59	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SED-029-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0380	J	0.0031	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SED-030-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:13:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0222	J	0.0032	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5

Collected: 12/13/2010 9:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0049	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5

Collected: 12/13/2010 10:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0039	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0873	J	0.0029	MDL	0.100	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-073-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0132	J	0.0028	MDL	0.0993	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0204	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-076-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0066	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0142	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0414	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0086	J	0.0030	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0098	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-236-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0341	J	0.0028	MDL	0.0993	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SED-029-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:52:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.29	J	0.19	MDL	0.92	PQL	ug/Kg	J	Z

Sample ID: SL-071-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:09:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRLIN	0.24	U	0.24	MDL	0.36	PQL	ug/Kg	R	Q
ENDRLIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	Q
HEPTACHLOR	0.064	U	0.064	MDL	0.18	PQL	ug/Kg	R	Q

Sample ID: SL-074-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:15:00

Analysis Type: DL-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.74	J	0.33	MDL	0.90	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: DUP04-SA5B-QC-121310

Collected: 12/13/2010 10:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	FD
AROCLOR 1254	2.1		0.35	MDL	1.8	PQL	ug/Kg	J	FD
AROCLOR 1260	3.9		0.35	MDL	1.8	PQL	ug/Kg	J	FD
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	2.6	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, L

Sample ID: SED-029-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:52:00

Analysis Type: RES

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	11	U	11	MDL	37	PQL	ug/Kg	UJ	L
Aroclor 5442	11	U	11	MDL	37	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SED-029-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:52:00

Analysis Type: RES

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	170		11	MDL	37	PQL	ug/Kg	J	L

Sample ID: SED-030-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:13:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	2.4	U	2.4	MDL	7.9	PQL	ug/Kg	UJ	L
Aroclor 5442	2.4	U	2.4	MDL	7.9	PQL	ug/Kg	UJ	L
Aroclor 5460	6.7	J	2.4	MDL	7.9	PQL	ug/Kg	J	Z, L

Sample ID: SED-031-SIV-SD-0.0-0.5

Collected: 12/13/2010 9:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	8.4	J	1.8	MDL	9.4	PQL	ug/Kg	J	Z
AROCLOR 1260	5.3	J	1.8	MDL	9.4	PQL	ug/Kg	J	Z
Aroclor 5432	5.6	U	5.6	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.6	U	5.6	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	9.3	J	5.6	MDL	18	PQL	ug/Kg	J	Z, L

Sample ID: SED-040-SIV-SD-0.0-0.5

Collected: 12/13/2010 10:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	4.2		1.1	MDL	3.6	PQL	ug/Kg	J	L

Sample ID: SL-071-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:09:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	6.7		0.35	MDL	1.8	PQL	ug/Kg	J	FD
AROCLOR 1254	13		0.35	MDL	1.8	PQL	ug/Kg	J	FD
AROCLOR 1260	8.5		0.35	MDL	1.8	PQL	ug/Kg	J	FD
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	4.3		1.1	MDL	3.5	PQL	ug/Kg	J	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-072-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:48:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	6.8		0.70	MDL	3.6	PQL	ug/Kg	J	S
AROCLOR 1260	22		0.70	MDL	3.6	PQL	ug/Kg	J	S
Aroclor 5432	2.1	U	2.1	MDL	7.0	PQL	ug/Kg	UJ	L
Aroclor 5442	2.1	U	2.1	MDL	7.0	PQL	ug/Kg	UJ	L
Aroclor 5460	27		2.1	MDL	7.0	PQL	ug/Kg	J	S, L

Sample ID: SL-073-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	5.6		1.1	MDL	3.5	PQL	ug/Kg	J	L

Sample ID: SL-074-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	4.5	J	1.8	MDL	9.3	PQL	ug/Kg	J	Z
AROCLOR 1254	4.8	J	1.8	MDL	9.3	PQL	ug/Kg	J	Z
Aroclor 5432	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	8.9	J	5.4	MDL	18	PQL	ug/Kg	J	Z, L

Sample ID: SL-076-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SL-078-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.7	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	1.1	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-078-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-083-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:49:00

Analysis Type: RES

Dilution: 1000

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1100	U	1100	MDL	3600	PQL	ug/Kg	UJ	L
Aroclor 5442	1100	U	1100	MDL	3600	PQL	ug/Kg	UJ	L
Aroclor 5460	1100	U	1100	MDL	3600	PQL	ug/Kg	UJ	L

Sample ID: SL-084-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-086-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	5.2		0.35	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1254	3.6		0.35	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1260	1.7	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, S
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.7	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, S, L

Sample ID: SL-089-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	6.6	J	1.8	MDL	9.1	PQL	ug/Kg	J	Z
Aroclor 5432	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	6.6	J	5.4	MDL	18	PQL	ug/Kg	J	Z, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-092-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-103-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:25:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	5.6	U	5.6	MDL	19	PQL	ug/Kg	UJ	L
Aroclor 5442	5.6	U	5.6	MDL	19	PQL	ug/Kg	UJ	L
Aroclor 5460	5.6	U	5.6	MDL	19	PQL	ug/Kg	UJ	L

Sample ID: SL-139-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:04:00

Analysis Type: RES

Dilution: 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	57	U	57	MDL	190	PQL	ug/Kg	UJ	L
Aroclor 5442	57	U	57	MDL	190	PQL	ug/Kg	UJ	L
Aroclor 5460	57	U	57	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-236-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:10:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	5.3	U	5.3	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.3	U	5.3	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	5.3	U	5.3	MDL	18	PQL	ug/Kg	UJ	L

Sample ID: SL-301-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:00:00

Analysis Type: RES

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	11	U	11	MDL	36	PQL	ug/Kg	UJ	L
Aroclor 5442	11	U	11	MDL	36	PQL	ug/Kg	UJ	L
Aroclor 5460	110		11	MDL	36	PQL	ug/Kg	J	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: DUP04-SA5B-QC-121310

Collected: 12/13/2010 10:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SED-029-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.33		0.091	MDL	0.19	PQL	ug/Kg	J	S
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SED-030-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:13:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	3.0	J	1.4	MDL	4.3	PQL	ug/Kg	J	Z
DICAMBA	0.78	J	0.48	MDL	1.4	PQL	ug/Kg	J	Z
DINOSEB	0.96	U	0.96	MDL	2.9	PQL	ug/Kg	R	L

Sample ID: SED-031-SIV-SD-0.0-0.5

Collected: 12/13/2010 9:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.69	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SED-040-SIV-SD-0.0-0.5

Collected: 12/13/2010 10:19:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-071-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.7	U	4.7	MDL	9.6	PQL	ug/Kg	R	Q
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-072-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.4	J	1.3	MDL	3.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-072-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:48:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-073-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-074-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.9	J	1.3	MDL	3.9	PQL	ug/Kg	J	Z
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L
MCPA	230	J	83	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-076-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L
MCPA	130	J	80	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-078-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-083-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:49:00

Analysis Type: DL-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	4.3	U	4.3	MDL	13	PQL	ug/Kg	R	L

Sample ID: SL-084-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:46:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L
MCPA	250	J	83	MDL	270	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-086-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-089-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.088	J	0.088	MDL	0.18	PQL	ug/Kg	J	Z
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-092-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:27:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-103-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-139-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.91	U	0.91	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-236-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.45	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-301-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: DUP04-SA5B-QC-121310

Collected: 12/13/2010 10:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	30	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	33	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	60	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	33	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	24	J	18	MDL	180	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	29	J	18	MDL	350	PQL	ug/Kg	J	Z, FD
CHRYSENE	46	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	64	J	18	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	27	J	18	MDL	180	PQL	ug/Kg	J	Z
PHENANTHRENE	23	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	70	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SED-029-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:52:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	110	J	18	MDL	370	PQL	ug/Kg	J	Z
Butylbenzylphthalate	31	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SED-030-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:13:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	120	U	120	MDL	400	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	56	J	20	MDL	400	PQL	ug/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5

Collected: 12/13/2010 9:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	38	J	19	MDL	370	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SED-040-SIV-SD-0.0-0.5

Collected: 12/13/2010 10:19:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

Sample ID: SL-071-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:09:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3600	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	18	U	18	MDL	360	PQL	ug/Kg	UJ	FD

Sample ID: SL-072-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:48:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	39	J	18	MDL	350	PQL	ug/Kg	J	Z
FLUORANTHENE	20	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	25	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L

Sample ID: SL-074-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	41	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-076-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	23	J	18	MDL	350	PQL	ug/Kg	J	Z
PYRENE	18	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-078-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L

Sample ID: SL-083-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:49:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

Sample ID: SL-084-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:46:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	25	J	18	MDL	360	PQL	ug/Kg	J	Z
FLUORANTHENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	23	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L

Sample ID: SL-089-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	330	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-092-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:27:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	380	PQL	ug/Kg	UJ	L

Sample ID: SL-103-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	380	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-139-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	380	PQL	ug/Kg	UJ	L

Sample ID: SL-236-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	28	J	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-301-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L
BENZO(A)PYRENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	29	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	18	J	18	MDL	180	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	26	J	18	MDL	370	PQL	ug/Kg	J	Z
PYRENE	21	J	18	MDL	180	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: DUP04-SA5B-QC-121310

Collected: 12/13/2010 10:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.74	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, FD
2-METHYLNAPHTHALENE	0.87	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.75	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
ANTHRACENE	1.6	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
DIBENZO(A,H)ANTHRACENE	2.6		0.71	MDL	1.8	PQL	ug/Kg	J	FD
Di-n-butylphthalate	6.7	J	6.4	MDL	19	PQL	ug/Kg	J	Z, FD
NAPHTHALENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SED-029-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:52:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	4.4	J	3.7	MDL	18	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	9.6	J	7.4	MDL	18	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	9.6	J	7.4	MDL	18	PQL	ug/Kg	J	Z
Di-n-octylphthalate	97	J	66	MDL	200	PQL	ug/Kg	J	Z

Sample ID: SED-030-SIV-SD-0.0-0.5

Collected: 12/13/2010 11:13:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	1.6	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.3	J	7.2	MDL	22	PQL	ug/Kg	J	Z
FLUORANTHENE	1.4	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	0.83	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	0.89	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5

Collected: 12/13/2010 9:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.43	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.99	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.85	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.2	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-butylphthalate	13	J	6.7	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	1.1	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.6	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5

Collected: 12/13/2010 10:19:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.38	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.84	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.79	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.73	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-071-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	FD
2-METHYLNAPHTHALENE	0.74	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	18		0.36	MDL	1.8	PQL	ug/Kg	J	Q, FD
ANTHRACENE	6.9		0.36	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(A)ANTHRACENE	73		0.71	MDL	1.8	PQL	ug/Kg	J	Q
BENZO(K)FLUORANTHENE	91		0.71	MDL	1.8	PQL	ug/Kg	J	Q
DIBENZO(A,H)ANTHRACENE	55		0.71	MDL	1.8	PQL	ug/Kg	J	Q, FD
Di-n-butylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	UJ	FD
NAPHTHALENE	3.3		0.71	MDL	1.8	PQL	ug/Kg	J	FD
PHENANTHRENE	54		0.71	MDL	1.8	PQL	ug/Kg	J	Q
PYRENE	85		0.71	MDL	1.8	PQL	ug/Kg	J	Q

Sample ID: SL-072-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:48:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.62	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.96	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.96	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	13	J	7.0	MDL	18	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	16	J	7.0	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	12	J	7.0	MDL	18	PQL	ug/Kg	J	Z
PYRENE	17	J	7.0	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-074-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.58	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.0	J	6.5	MDL	20	PQL	ug/Kg	J	Z
FLUORENE	0.80	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-074-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-078-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	9.7	J	7.4	MDL	18	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	11	J	7.4	MDL	18	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	16	J	7.4	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	17	J	3.7	MDL	18	PQL	ug/Kg	J	Z
FLUORANTHENE	16	J	7.4	MDL	18	PQL	ug/Kg	J	Z
PYRENE	13	J	7.4	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:49:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.3	J	6.5	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	0.78	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:46:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.6	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.78	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.45	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.89	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-089-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-octylphthalate	10	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-092-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:27:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	0.78	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.88	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.96	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	0.91	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-139-SA5B-SS-0.0-0.5

Collected: 12/13/2010 11:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.89	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.96	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.6	J	6.8	MDL	21	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-236-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	6.4	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	11	J	6.4	MDL	19	PQL	ug/Kg	J	Z
FLUORANTHENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-236-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-301-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.40	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	1.1	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.4	J	6.6	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

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Quality Control Outlier Reports

DE036

Method Blank Outlier Report

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35108DB222357	12/20/2010 11:57:00 PM	ALUMINUM CALCIUM PHOSPHORUS STRONTIUM TIN	7.29 mg/Kg 12.8 mg/Kg 1.08 mg/Kg 0.0650 mg/Kg 1.20 mg/Kg	DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5
P35408EB221919	12/21/2010 7:19:00 PM	ALUMINUM CALCIUM PHOSPHORUS TIN	5.43 mg/Kg 12.3 mg/Kg 1.70 mg/Kg 1.37 mg/Kg	SL-236-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP04-SA5B-QC-121310(RES)	TIN	2.42 mg/Kg	2.42U mg/Kg
SED-029-SIV-SD-0.0-0.5(RES)	TIN	2.05 mg/Kg	2.05U mg/Kg
SED-030-SIV-SD-0.0-0.5(RES)	TIN	2.34 mg/Kg	2.34U mg/Kg
SED-031-SIV-SD-0.0-0.5(RES)	TIN	2.03 mg/Kg	2.03U mg/Kg
SED-040-SIV-SD-0.0-0.5(RES)	TIN	1.82 mg/Kg	1.82U mg/Kg
SL-071-SA5B-SS-0.0-0.5(RES)	TIN	2.40 mg/Kg	2.40U mg/Kg
SL-072-SA5B-SS-0.0-0.5(RES)	TIN	2.20 mg/Kg	2.20U mg/Kg
SL-073-SA5B-SS-0.0-0.5(RES)	TIN	2.03 mg/Kg	2.03U mg/Kg
SL-074-SA5B-SS-0.0-0.5(RES)	TIN	2.34 mg/Kg	2.34U mg/Kg
SL-076-SA5B-SS-0.0-0.5(RES)	TIN	2.39 mg/Kg	2.39U mg/Kg
SL-078-SA5B-SS-0.0-0.5(RES)	TIN	2.09 mg/Kg	2.09U mg/Kg
SL-083-SA5B-SS-0.0-0.5(RES)	TIN	2.24 mg/Kg	2.24U mg/Kg
SL-084-SA5B-SS-0.0-0.5(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg
SL-086-SA5B-SS-0.0-0.5(RES)	TIN	1.98 mg/Kg	1.98U mg/Kg
SL-089-SA5B-SS-0.0-0.5(RES)	TIN	2.20 mg/Kg	2.20U mg/Kg
SL-092-SA5B-SS-0.0-0.5(RES)	TIN	2.05 mg/Kg	2.05U mg/Kg
SL-103-SA5B-SS-0.0-0.5(RES)	TIN	2.33 mg/Kg	2.33U mg/Kg
SL-139-SA5B-SS-0.0-0.5(RES)	TIN	2.72 mg/Kg	2.72U mg/Kg
SL-236-SA5B-SS-0.0-0.5(REA3)	TIN	2.25 mg/Kg	2.25U mg/Kg
SL-301-SA5B-SS-0.0-0.5(RES)	TIN	3.24 mg/Kg	3.24U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020 Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35126BB220903A	12/26/2010 9:03:00 AM	COPPER	0.242 mg/Kg	DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5

Method: 6850 Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BlankB241840A	12/21/2010 6:40:00 PM	PERCHLORATE	7.0 ug/Kg	SL-071-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5

Method: 8270C SIM Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLH35B261033	12/23/2010 10:33:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE	8.2 ug/Kg	DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5B-SS-0.0-0.5MS (SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5)	FLUORIDE	78	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	4,4'-DDT ALDRIN	- 132	245 -	10.00-176.00 16.00-126.00	- -	4,4'-DDT ALDRIN	J(all detects)
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	DIELDRIN ENDRIN HEPTACHLOR	0 0 0	- - -	19.00-154.00 11.00-149.00 13.00-126.00	200 (50.00) 200 (50.00) 200 (50.00)	DIELDRIN ENDRIN HEPTACHLOR	J(all detects) R(all non-detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	2,4,5-T 2,4-DB DICAMBA	- - 154	- - 127	25.00-132.00 20.00-170.00 33.00-120.00	68 (35.00) 62 (50.00) -	2,4,5-T 2,4-DB DICAMBA	J(all detects)
SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	DALAPON	-	0	12.00-86.00	200 (50.00)	DALAPON	J(all detects) R(all non-detects)

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	2,4-DINITROPHENOL BENZOIC ACID	- -	- -	20.00-143.00 10.00-173.00	47 (30.00) 31 (30.00)	2,4-DINITROPHENOL BENZOIC ACID	J(all detects)
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	BENZIDINE	16	20	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE CHRYSENE DIBENZO(A,H)ANTHRACENE FLUORANTHENE INDENO(1,2,3-CD)PYRENE PHENANTHRENE PYRENE	-87 -461 -1536 -401 -148 -1058 -49 -326 -643 -43 -111	-90 -441 -1472 -387 -137 -999 -47 -323 -617 -40 -113	39.00-144.00 34.00-156.00 43.00-155.00 33.00-141.00 42.00-144.00 29.00-156.00 41.00-130.00 26.00-166.00 21.00-143.00 12.00-165.00 15.00-153.00	- - - - - - - - - - -	BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE CHRYSENE DIBENZO(A,H)ANTHRACENE FLUORANTHENE INDENO(1,2,3-CD)PYRENE PHENANTHRENE PYRENE	J(all detects) R(all non-detects) Fluoranthene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(123-cd)pyrene, Benzo(ghi)perylene No Qual, >4x
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	ACENAPHTHYLENE	49	52	55.00-126.00	-	ACENAPHTHYLENE	J(all detects) UJ(all non-detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (DUP04-SA5B-QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER VANADIUM ZINC	188 146 133 160 127 138 179 136 - 204 222	166 142 139 157 126 151 193 143 129 201 321	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - - - -	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER VANADIUM ZINC	J(all detects) V, Zn No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (DUP04-SA5B-QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	ANTIMONY	40	20	75.00-125.00	56 (20.00)	ANTIMONY	J(all detects) R(all non-detects)
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (DUP04-SA5B-QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	MOLYBDENUM	134	134	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (DUP04-SA5B-QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	BARIUM	313	247	75.00-125.00	-	BARIUM	No Qual, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (DUP04-SA5B-QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE	1507 167 1042 265 149	1477 189 1161 220 139	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE	No Qual, >4x
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (DUP04-SA5B-QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	TITANIUM	445	352	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-071-SA5B-SS-0.0-0.5DUP (SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5)	FLUORIDE	24	20.00	No Qual OK by difference

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-071-SA5B-SS-0.0-0.5DUP (DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5)	Zirconium	52	20.00	No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-071-SA5B-SS-0.0-0.5DUP (DUP04-SA5B-QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	ANTIMONY ARSENIC BARIUM BERYLLIUM CADMIUM COBALT COPPER LEAD NICKEL SILVER	200 23 28 43 25 22 33 37 31 47	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Sb, Cd, Ag No Qual OK by difference

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-071-SA5B-SS-0.0-0.5DUP (DUP04-SA5B-QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	HEXAVALENT CHROMIUM	200	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 6850

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSQ241847A (SL-071-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5)	PERCHLORATE	120	-	85.00-115.00	-	PERCHLORATE	J (all detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03510AQ240131A (DUP04 -SA5B-QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	METHOXYCHLOR	130	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03511AY241835A (DUP04 -SA5B-QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	Aroclor 5442	-	74	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03557AQ241952A (DUP04-SA5B-QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	DINOSEB	6	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P01GLCSQ261059 (DUP04-SA5B-QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	3,3'-DICHLOROBENZIDINE	31	-	38.00-105.00	-	3,3'-DICHLOROBENZIDINE	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P35126BQ220906A (DUP04 -SA5B-QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	ANTIMONY	55	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-139-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	251	20.00-120.00	All Target Analytes	No Qual Diluted Out

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-031-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	139	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-072-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J(all detects)
SL-074-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	131	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-086-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	125	45.00-120.00	All Target Analytes	J(all detects)
SL-089-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	160	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-103-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	128	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-236-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	138	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-301-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	152	45.00-120.00	All Target Analytes	No Qual Diluted Out

Method: 8151A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-029-SIV-SD-0.0-0.5	2,4-Dichlorophenylacetic acid	173	36.00-156.00	All Target Analytes	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
MOISTURE	6.3	5.9	7		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
FLUORIDE	3.4	4.3	23	50.00	No Qualifiers Applied

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
ALUMINUM	14400	14200	1	50.00	No Qualifiers Applied
BORON	4.15	5.32	25	50.00	
CALCIUM	2980	3040	2	50.00	
IRON	20700	20900	1	50.00	
LITHIUM	23.9	23.4	2	50.00	
MAGNESIUM	4490	4460	1	50.00	
MANGANESE	248	248	0	50.00	
PHOSPHORUS	377	394	4	50.00	
POTASSIUM	2680	2580	4	50.00	
SODIUM	109	102	7	50.00	
STRONTIUM	16.7	17.2	3	50.00	
TIN	2.40	2.42	1	50.00	
TITANIUM	1130	1150	2	50.00	
Zirconium	1.01	1.10	9	50.00	

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
ANTIMONY	0.102	0.136	29	50.00	No Qualifiers Applied
ARSENIC	6.17	7.83	24	50.00	
BARIUM	120	135	12	50.00	
BERYLLIUM	0.693	0.771	11	50.00	
CHROMIUM	25.5	28.8	12	50.00	
COBALT	7.36	9.00	20	50.00	
COPPER	11.9	15.1	24	50.00	
LEAD	9.18	11.3	21	50.00	
MOLYBDENUM	0.620	0.750	19	50.00	
NICKEL	14.8	17.1	14	50.00	
SELENIUM	0.0935	0.152	48	50.00	
THALLIUM	0.356	0.324	9	50.00	
VANADIUM	44.9	50.3	11	50.00	
ZINC	98.5	128	26	50.00	
CADMIUM	0.210	0.382	58	50.00	J(all detects)
SILVER	0.241	1.22	134	50.00	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
HEXAVALENT CHROMIUM	1.1 U	0.76	200	50.00	J(all detects) UJ(all non-detects)

Method: 7471A

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
MERCURY	0.334	0.227	38	50.00	No Qualifiers Applied

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
Aroclor 5460	4.3	2.6	49	50.00	No Qualifiers Applied
AROCOLOR 1248	6.7	1.8 U	200	50.00	J(all detects) UJ(all non-detects)
AROCOLOR 1254	13	2.1	144	50.00	
AROCOLOR 1260	8.5	3.9	74	50.00	

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
2-METHYLNAPHTHALENE	0.74	0.87	16	50.00	No Qualifiers Applied
1-METHYLNAPHTHALENE	1.8 U	0.74	200	50.00	J(all detects) UJ(all non-detects)
ACENAPHTHYLENE	18	0.75	184	50.00	
ANTHRACENE	6.9	1.6	125	50.00	
DIBENZO(A,H)ANTHRACENE	55	2.6	182	50.00	
Di-n-butylphthalate	19 U	6.7	200	50.00	
NAPHTHALENE	3.3	1.1	100	50.00	

Method: 8270C

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
BIS(2-ETHYLHEXYL)PHTHALATE	360 U	29	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
PH	7.67	7.34	4	50.00	No Qualifiers Applied

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: ASTM D1498

Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0- 0.5	DUP04-SA5B-QC- 121310			
Oxidation Reduction Potential	462	454	2		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-073-SA5B-SS-0.0-0.5	FLUORIDE	J	0.87	1.1	PQL	mg/Kg	J (all detects)

Method: 314.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-086-SA5B-SS-0.0-0.5	PERCHLORATE	J	11.8	31.8	PQL	ug/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	SODIUM TIN Zirconium	J	102	106	PQL	mg/Kg	J (all detects)
		J	2.42	10.6	PQL	mg/Kg	
		J	1.10	5.31	PQL	mg/Kg	
SED-029-SIV-SD-0.0-0.5	BORON SODIUM TIN	J	4.76	5.32	PQL	mg/Kg	J (all detects)
		J	86.8	106	PQL	mg/Kg	
		J	2.05	10.6	PQL	mg/Kg	
SED-030-SIV-SD-0.0-0.5	SODIUM TIN Zirconium	J	78.9	115	PQL	mg/Kg	J (all detects)
		J	2.34	11.5	PQL	mg/Kg	
		J	1.44	5.74	PQL	mg/Kg	
SED-031-SIV-SD-0.0-0.5	SODIUM TIN Zirconium	J	54.3	107	PQL	mg/Kg	J (all detects)
		J	2.03	10.7	PQL	mg/Kg	
		J	0.920	5.34	PQL	mg/Kg	
SED-040-SIV-SD-0.0-0.5	BORON SODIUM TIN Zirconium	J	5.27	5.35	PQL	mg/Kg	J (all detects)
		J	62.3	107	PQL	mg/Kg	
		J	1.82	10.7	PQL	mg/Kg	
		J	1.05	5.35	PQL	mg/Kg	
SL-071-SA5B-SS-0.0-0.5	BORON TIN Zirconium	J	4.15	5.23	PQL	mg/Kg	J (all detects)
		J	2.40	10.5	PQL	mg/Kg	
		J	1.01	5.23	PQL	mg/Kg	
SL-072-SA5B-SS-0.0-0.5	SODIUM TIN Zirconium	J	98.9	101	PQL	mg/Kg	J (all detects)
		J	2.20	10.1	PQL	mg/Kg	
		J	1.32	5.03	PQL	mg/Kg	
SL-073-SA5B-SS-0.0-0.5	BORON SODIUM TIN Zirconium	J	4.90	5.05	PQL	mg/Kg	J (all detects)
		J	87.5	101	PQL	mg/Kg	
		J	2.03	10.1	PQL	mg/Kg	
		J	1.75	5.05	PQL	mg/Kg	
SL-074-SA5B-SS-0.0-0.5	BORON TIN Zirconium	J	4.88	5.19	PQL	mg/Kg	J (all detects)
		J	2.34	10.4	PQL	mg/Kg	
		J	1.49	5.19	PQL	mg/Kg	
SL-076-SA5B-SS-0.0-0.5	BORON TIN	J	2.78	5.26	PQL	mg/Kg	J (all detects)
		J	2.39	10.5	PQL	mg/Kg	
SL-078-SA5B-SS-0.0-0.5	BORON TIN Zirconium	J	3.77	5.30	PQL	mg/Kg	J (all detects)
		J	2.09	10.6	PQL	mg/Kg	
		J	1.26	5.30	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-083-SA5B-SS-0.0-0.5	BORON	J	4.46	5.16	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.9	103	PQL	mg/Kg	
	TIN	J	2.24	10.3	PQL	mg/Kg	
	Zirconium	J	1.82	5.16	PQL	mg/Kg	
SL-084-SA5B-SS-0.0-0.5	BORON	J	3.91	5.42	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.4	108	PQL	mg/Kg	
	TIN	J	2.45	10.8	PQL	mg/Kg	
	Zirconium	J	1.39	5.42	PQL	mg/Kg	
SL-086-SA5B-SS-0.0-0.5	SODIUM	J	71.0	103	PQL	mg/Kg	J (all detects)
	TIN	J	1.98	10.3	PQL	mg/Kg	
	Zirconium	J	1.95	5.15	PQL	mg/Kg	
SL-089-SA5B-SS-0.0-0.5	TIN	J	2.20	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.43	5.20	PQL	mg/Kg	
SL-092-SA5B-SS-0.0-0.5	TIN	J	2.05	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.79	5.57	PQL	mg/Kg	
SL-103-SA5B-SS-0.0-0.5	TIN	J	2.33	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.02	5.47	PQL	mg/Kg	
SL-139-SA5B-SS-0.0-0.5	TIN	J	2.72	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.64	5.58	PQL	mg/Kg	
SL-236-SA5B-SS-0.0-0.5	TIN	J	2.25	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.19	5.26	PQL	mg/Kg	
SL-301-SA5B-SS-0.0-0.5	BORON	J	4.44	5.32	PQL	mg/Kg	J (all detects)
	TIN	J	3.24	10.6	PQL	mg/Kg	
	Zirconium	J	1.67	5.32	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	ANTIMONY	J	0.136	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.152	0.417	PQL	mg/Kg	
SED-029-SIV-SD-0.0-0.5	ANTIMONY	J	0.191	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.144	0.434	PQL	mg/Kg	
SED-030-SIV-SD-0.0-0.5	ANTIMONY	J	0.115	0.239	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.209	0.478	PQL	mg/Kg	
	SILVER	J	0.0806	0.119	PQL	mg/Kg	
SED-031-SIV-SD-0.0-0.5	SELENIUM	J	0.151	0.440	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0557	0.110	PQL	mg/Kg	
SED-040-SIV-SD-0.0-0.5	SELENIUM	J	0.129	0.436	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0217	0.109	PQL	mg/Kg	
SL-071-SA5B-SS-0.0-0.5	ANTIMONY	J	0.102	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0935	0.423	PQL	mg/Kg	
SL-072-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0917	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.114	0.406	PQL	mg/Kg	
SL-073-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0768	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.138	0.412	PQL	mg/Kg	
SL-074-SA5B-SS-0.0-0.5	SELENIUM	J	0.315	0.431	PQL	mg/Kg	J (all detects)
SL-076-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0842	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.133	0.425	PQL	mg/Kg	
	SILVER	J	0.0363	0.106	PQL	mg/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-078-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM	J	0.149	0.216	PQL	mg/Kg	J (all detects)
		J	0.179	0.432	PQL	mg/Kg	
SL-083-SA5B-SS-0.0-0.5	SELENIUM	J	0.176	0.421	PQL	mg/Kg	J (all detects)
SL-084-SA5B-SS-0.0-0.5	SELENIUM SILVER	J	0.203	0.438	PQL	mg/Kg	J (all detects)
		J	0.0361	0.109	PQL	mg/Kg	
SL-086-SA5B-SS-0.0-0.5	SELENIUM SILVER	J	0.140	0.420	PQL	mg/Kg	J (all detects)
		J	0.0435	0.105	PQL	mg/Kg	
SL-089-SA5B-SS-0.0-0.5	SELENIUM SILVER	J	0.123	0.424	PQL	mg/Kg	J (all detects)
		J	0.0831	0.106	PQL	mg/Kg	
SL-092-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.0680	0.223	PQL	mg/Kg	J (all detects)
		J	0.320	0.446	PQL	mg/Kg	
		J	0.0392	0.111	PQL	mg/Kg	
SL-103-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.0708	0.223	PQL	mg/Kg	J (all detects)
		J	0.273	0.446	PQL	mg/Kg	
		J	0.0321	0.111	PQL	mg/Kg	
SL-139-SA5B-SS-0.0-0.5	SELENIUM SILVER	J	0.152	0.438	PQL	mg/Kg	J (all detects)
		J	0.0876	0.110	PQL	mg/Kg	
SL-236-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.152	0.208	PQL	mg/Kg	J (all detects)
		J	0.160	0.417	PQL	mg/Kg	
		J	0.0265	0.104	PQL	mg/Kg	
SL-301-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM	J	0.120	0.211	PQL	mg/Kg	J (all detects)
		J	0.164	0.422	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	HEXAVALENT CHROMIUM	J	0.76	1.1	PQL	mg/Kg	J (all detects)
SED-030-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.70	1.2	PQL	mg/Kg	J (all detects)
SED-040-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)
SL-072-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-073-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/Kg	J (all detects)
SL-074-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.51	1.1	PQL	mg/Kg	J (all detects)
SL-078-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.86	1.1	PQL	mg/Kg	J (all detects)
SL-083-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.91	1.1	PQL	mg/Kg	J (all detects)
SL-084-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.41	1.1	PQL	mg/Kg	J (all detects)
SL-086-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/Kg	J (all detects)
SL-089-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.58	1.1	PQL	mg/Kg	J (all detects)
SL-092-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.39	1.1	PQL	mg/Kg	J (all detects)
SL-139-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.59	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-029-SIV-SD-0.0-0.5	MERCURY	J	0.0380	0.110	PQL	mg/Kg	J (all detects)
SED-030-SIV-SD-0.0-0.5	MERCURY	J	0.0222	0.113	PQL	mg/Kg	J (all detects)
SED-031-SIV-SD-0.0-0.5	MERCURY	J	0.0049	0.105	PQL	mg/Kg	J (all detects)
SED-040-SIV-SD-0.0-0.5	MERCURY	J	0.0039	0.107	PQL	mg/Kg	J (all detects)
SL-072-SA5B-SS-0.0-0.5	MERCURY	J	0.0873	0.100	PQL	mg/Kg	J (all detects)
SL-073-SA5B-SS-0.0-0.5	MERCURY	J	0.0132	0.0993	PQL	mg/Kg	J (all detects)
SL-074-SA5B-SS-0.0-0.5	MERCURY	J	0.0204	0.104	PQL	mg/Kg	J (all detects)
SL-076-SA5B-SS-0.0-0.5	MERCURY	J	0.0066	0.101	PQL	mg/Kg	J (all detects)
SL-078-SA5B-SS-0.0-0.5	MERCURY	J	0.0142	0.108	PQL	mg/Kg	J (all detects)
SL-083-SA5B-SS-0.0-0.5	MERCURY	J	0.0414	0.101	PQL	mg/Kg	J (all detects)
SL-084-SA5B-SS-0.0-0.5	MERCURY	J	0.0086	0.106	PQL	mg/Kg	J (all detects)
SL-086-SA5B-SS-0.0-0.5	MERCURY	J	0.0098	0.101	PQL	mg/Kg	J (all detects)
SL-236-SA5B-SS-0.0-0.5	MERCURY	J	0.0341	0.0993	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-029-SIV-SD-0.0-0.5	ALPHA-BHC	J	0.29	0.92	PQL	ug/Kg	J (all detects)
SL-074-SA5B-SS-0.0-0.5	BETA-BHC	J	0.74	0.90	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	Aroclor 5460	J	2.6	3.5	PQL	ug/Kg	J (all detects)
SED-030-SIV-SD-0.0-0.5	Aroclor 5460	J	6.7	7.9	PQL	ug/Kg	J (all detects)
SED-031-SIV-SD-0.0-0.5	AROCLOR 1254	J	8.4	9.4	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	5.3	9.4	PQL	ug/Kg	
	Aroclor 5460	J	9.3	18	PQL	ug/Kg	
SL-074-SA5B-SS-0.0-0.5	AROCLOR 1248	J	4.5	9.3	PQL	ug/Kg	J (all detects)
	AROCLOR 1254	J	4.8	9.3	PQL	ug/Kg	
	Aroclor 5460	J	8.9	18	PQL	ug/Kg	
SL-078-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.7	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.1	1.9	PQL	ug/Kg	
SL-086-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.7	3.5	PQL	ug/Kg	
SL-089-SA5B-SS-0.0-0.5	AROCLOR 1260	J	6.6	9.1	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	6.6	18	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-030-SIV-SD-0.0-0.5	2,4-D DICAMBA	J	3.0	4.3	PQL	ug/Kg	J (all detects)
		J	0.78	1.4	PQL	ug/Kg	
SED-031-SIV-SD-0.0-0.5	DICAMBA	J	0.69	1.3	PQL	ug/Kg	J (all detects)
SL-072-SA5B-SS-0.0-0.5	2,4-D	J	1.4	3.8	PQL	ug/Kg	J (all detects)
SL-074-SA5B-SS-0.0-0.5	2,4-D MCPA	J	1.9	3.9	PQL	ug/Kg	J (all detects)
		J	230	270	PQL	ug/Kg	
SL-076-SA5B-SS-0.0-0.5	MCPP	J	130	270	PQL	ug/Kg	J (all detects)
SL-084-SA5B-SS-0.0-0.5	MCPA	J	250	270	PQL	ug/Kg	J (all detects)
SL-089-SA5B-SS-0.0-0.5	2,4,5-T	J	0.088	0.18	PQL	ug/Kg	J (all detects)
SL-236-SA5B-SS-0.0-0.5	DICAMBA	J	0.45	1.3	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	BENZO(A)ANTHRACENE	J	30	180	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	33	180	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	60	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	33	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	24	180	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	29	350	PQL	ug/Kg	
	CHRYSENE	J	46	180	PQL	ug/Kg	
	FLUORANTHENE	J	64	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	27	180	PQL	ug/Kg	
	PHENANTHRENE	J	23	180	PQL	ug/Kg	
	PYRENE	J	70	180	PQL	ug/Kg	
SED-029-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	110	370	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	31	180	PQL	ug/Kg	
SED-030-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	56	400	PQL	ug/Kg	J (all detects)
SED-031-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	38	370	PQL	ug/Kg	J (all detects)
SL-072-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	39	350	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	20	180	PQL	ug/Kg	
	PYRENE	J	25	180	PQL	ug/Kg	
SL-074-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	41	360	PQL	ug/Kg	J (all detects)
SL-076-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	350	PQL	ug/Kg	J (all detects)
	PYRENE	J	18	180	PQL	ug/Kg	
SL-084-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	25	360	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	22	180	PQL	ug/Kg	
	PYRENE	J	23	180	PQL	ug/Kg	
SL-089-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	330	360	PQL	ug/Kg	J (all detects)
SL-236-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	28	350	PQL	ug/Kg	J (all detects)
SL-301-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	22	180	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	29	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	18	180	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	26	370	PQL	ug/Kg	
	PYRENE	J	21	180	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	1-METHYLNAPHTHALENE	J	0.74	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.87	1.8	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.75	1.8	PQL	ug/Kg	
	ANTHRACENE	J	1.6	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.7	19	PQL	ug/Kg	
	NAPHTHALENE	J	1.1	1.8	PQL	ug/Kg	
SED-029-SIV-SD-0.0-0.5	ANTHRACENE	J	4.4	18	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	9.6	18	PQL	ug/Kg	
	BENZO(A)PYRENE	J	9.6	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	97	200	PQL	ug/Kg	
SED-030-SIV-SD-0.0-0.5	CHRYSENE	J	1.6	2.0	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	7.3	22	PQL	ug/Kg	
	FLUORANTHENE	J	1.4	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	0.83	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	0.89	2.0	PQL	ug/Kg	
	PYRENE	J	1.2	2.0	PQL	ug/Kg	
SED-031-SIV-SD-0.0-0.5	ANTHRACENE	J	0.43	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.99	1.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.1	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.85	1.9	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.2	20	PQL	ug/Kg	
	Di-n-butylphthalate	J	13	20	PQL	ug/Kg	
	NAPHTHALENE	J	1.1	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	1.9	PQL	ug/Kg	
SED-040-SIV-SD-0.0-0.5	ANTHRACENE	J	0.38	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.84	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.79	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.73	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.3	1.8	PQL	ug/Kg	
SL-071-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.74	1.8	PQL	ug/Kg	J (all detects)
SL-072-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.62	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.96	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.96	1.8	PQL	ug/Kg	
SL-073-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	13	18	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	16	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	12	18	PQL	ug/Kg	
	PYRENE	J	17	18	PQL	ug/Kg	
SL-074-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	1.5	1.8	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.58	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.0	20	PQL	ug/Kg	
	FLUORENE	J	0.80	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.7	1.8	PQL	ug/Kg	
SL-078-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	9.7	18	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	11	18	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	16	18	PQL	ug/Kg	
	CHRYSENE	J	17	18	PQL	ug/Kg	
	FLUORANTHENE	J	16	18	PQL	ug/Kg	
	PYRENE	J	13	18	PQL	ug/Kg	
SL-083-SA5B-SS-0.0-0.5	ACENAPHTHENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	8.3	20	PQL	ug/Kg	
	NAPHTHALENE	J	0.78	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE036

Laboratory: LL

EDD Filename: DE036_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-084-SA5B-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.6	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.78	1.8	PQL	ug/Kg	
SL-086-SA5B-SS-0.0-0.5	CHRYSENE	J	0.45	1.8	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.89	1.8	PQL	ug/Kg	
SL-089-SA5B-SS-0.0-0.5	DIBENZO(A,H)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	10	19	PQL	ug/Kg	
SL-092-SA5B-SS-0.0-0.5	NAPHTHALENE	J	0.78	1.9	PQL	ug/Kg	J (all detects)
SL-103-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	0.88	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.7	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.96	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	0.91	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.9	PQL	ug/Kg	
SL-139-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.89	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.2	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.96	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.6	21	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.9	PQL	ug/Kg	
SL-236-SA5B-SS-0.0-0.5	PHENANTHRENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.7	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.4	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	11	19	PQL	ug/Kg	
	FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.6	1.8	PQL	ug/Kg	
SL-301-SA5B-SS-0.0-0.5	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	1-METHYLNAPHTHALENE	J	1.2	1.8	PQL	ug/Kg	
	2-METHYLNAPHTHALENE	J	1.5	1.8	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.40	1.8	PQL	ug/Kg	
	ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.7	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.4	20	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.8	PQL	ug/Kg	

LDC #: 25337H4 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: DE036 ADR
 Laboratory: Lancaster Laboratories

Date: 5/5/11
 Page: 1 of 1
 Reviewer: CR
 2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	ICB/COB hits - No Qual
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn 74x)
VII.	Duplicate Sample Analysis	N	Dup (Sb, Cd, Ag, Zr 25x RL)
VIII.	Laboratory Control Samples (LCS)	N	LES
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba (12% 5/5/11)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	—	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: Soil

1	SL-078-SA5B-SS-0.0-0.5	11	DUP04-SA5B-QC-121310	21	SL-071-SA5B-SS-0.0-0.5MS	31	
2	SL-084-SA5B-SS-0.0-0.5	12	SED-029-SIV-SD-0.0-0.5	22	SL-071-SA5B-SS-0.0-0.5MSD	32	
3	SL-076-SA5B-SS-0.0-0.5	13	SED-031-SIV-SD-0.0-0.5	23	SL-071-SA5B-SS-0.0-0.5DUP	33	
4	SL-074-SA5B-SS-0.0-0.5	14	SED-030-SIV-SD-0.0-0.5	24		34	
5	SL-139-SA5B-SS-0.0-0.5	15	SED-040-SIV-SD-0.0-0.5	25		35	
6	SL-083-SA5B-SS-0.0-0.5	16	SL-086-SA5B-SS-0.0-0.5	26		36	
7	SL-074-SA5B-SS-0.0-0.5	17	SL-092-SA5B-SS-0.0-0.5	27		37	
8	SL-301-SA5B-SS-0.0-0.5	18	SL-103-SA5B-SS-0.0-0.5	28		38	
9	SL-073-SA5B-SS-0.0-0.5	19	SL-089-SA5B-SS-0.0-0.5	29		39	
10	SL-072-SA5B-SS-0.0-0.5	20	SL-236-SA5B-SS-0.0-0.5	30		40	

Notes: _____

SAMPLE DELIVERY GROUP

DE037

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3050B	6010B	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3050B	6020	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3060A	7199	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3550B	8081A	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3550B	8082	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3550B	8151A	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3550B	8270C	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3550B	8270C SIM	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	Gen Prep	9045M	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	METHOD	300.0	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	METHOD	314.0	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	METHOD	7471A	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5MSD	P163878M240238A	MSD	3550B	8151A	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5MS	P163878R240210A	MS	3550B	8151A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3050B	6010B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3050B	6020	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3060A	7199	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3546	1625C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3550B	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3550B	8082	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3550B	8270C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3550B	8270C SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	5035	8015M	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	5035	8260B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	5035	8260B SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	8330	8330A	III

III = EPA Level 3 Data Review
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N = Normal Sample
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FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	Gen Prep	9045M	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	300.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	314.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	7471A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	8315A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	9012B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3050B	6010B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3050B	6020	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3060A	7199	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3546	1625C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3550B	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3550B	8082	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3550B	8270C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3550B	8270C SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	5035	8015M	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	5035	8260B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	5035	8260B SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	8330	8330A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	300.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	314.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	7471A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	8315A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	9012B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3050B	6010B	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3050B	6020	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3546	1625C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3550B	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3550B	8082	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3550B	8270C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3550B	8270C SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	5035	8015M	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	5035	8260B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	5035	8260B SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	8330	8330A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	METHOD	7471A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	METHOD	8315A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	3050B	6010B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	3050B	6020	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	3060A	7199	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	Gen Prep	9045M	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	METHOD	300.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	METHOD	314.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	METHOD	7471A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	METHOD	9012B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	P163871M321933A	MSD	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	P163871R321904A	MS	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3050B	6010B	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3050B	6020	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3060A	7199	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3546	1625C	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3550B	8015B	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3550B	8082	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3550B	8270C	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3550B	8270C SIM	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	5035	8015M	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	5035	8260B	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	5035	8260B SIM	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	8330	8330A	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	Gen Prep	9045M	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	300.0	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	314.0	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	7471A	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	8315A	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	9012B	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3050B	6010B	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3050B	6020	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3060A	7199	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3550B	8081A	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3550B	8082	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3550B	8151A	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3550B	8270C	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3550B	8270C SIM	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	Gen Prep	9045M	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	METHOD	300.0	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	METHOD	314.0	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	METHOD	6850	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	METHOD	7471A	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3050B	6010B	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3050B	6020	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3060A	7199	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3546	1625C	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3550B	8015B	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3550B	8082	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3550B	8270C	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3550B	8270C SIM	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	5035	8015M	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	5035	8260B	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	5035	8260B SIM	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	8330	8330A	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	Gen Prep	9045M	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	300.0	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	314.0	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	7471A	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	8015B	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	8315A	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	9012B	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3050B	6010B	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3050B	6020	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3060A	7199	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3546	1625C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3550B	8015B	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3550B	8082	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3550B	8270C	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3550B	8270C SIM	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	5035	8015M	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	5035	8260B	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	5035	8260B SIM	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	8330	8330A	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	Gen Prep	9045M	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	300.0	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	314.0	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	7471A	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	8015B	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	8315A	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	9012B	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3050B	6010B	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3050B	6020	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3060A	7199	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3546	1625C	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3550B	8015B	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3550B	8082	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3550B	8270C	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3550B	8270C SIM	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	5035	8015M	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	5035	8260B	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	5035	8260B SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	8330	8330A	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	Gen Prep	9045M	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	300.0	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	314.0	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	7471A	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	8015B	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	8315A	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	9012B	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3005A	6010B	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3020A	6020	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3510C	8081A	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3510C	8082	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3510C	8270C	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3510C	8270C SIM	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	5030B	8260B	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	5030B	8260B SIM	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	Gen Prep	300.0	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	Gen Prep	314.0	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	Gen Prep	7199	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	Gen Prep	9040B	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	METHOD	7470A	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	METHOD	8151A	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3050B	6010B	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3050B	6020	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3060A	7199	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3550B	8081A	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3550B	8082	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3550B	8151A	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3550B	8270C	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3550B	8270C SIM	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	Gen Prep	9045M	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	METHOD	300.0	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	METHOD	314.0	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	METHOD	7471A	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3050B	6010B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3050B	6020	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3060A	7199	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3546	1625C	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8015B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8081A	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8082	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8151A	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8270C	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8270C SIM	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	5035	8015M	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	5035	8260B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	5035	8260B SIM	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	8330	8330A	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	Gen Prep	9045M	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	300.0	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	314.0	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	8015B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	8315A	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	9012B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5MSD	P163880M322326A	MSD	METHOD	8015B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5MS	P163880R322312A	MS	METHOD	8015B	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3050B	6010B	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3050B	6020	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3060A	7199	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3546	1625C	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3550B	8015B	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3550B	8082	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3550B	8270C	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3550B	8270C SIM	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	5035	8015M	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	5035	8260B	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	5035	8260B SIM	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	8330	8330A	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	Gen Prep	9045M	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	300.0	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	314.0	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	6850	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	7471A	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	8015B	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	8315A	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	9012B	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3050B	6010B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3050B	6020	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3060A	7199	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3550B	8081A	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3550B	8082	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3550B	8151A	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3550B	8270C	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3550B	8270C SIM	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	Gen Prep	9045M	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	METHOD	300.0	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	METHOD	314.0	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	METHOD	7471A	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3050B	6010B	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3050B	6020	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3060A	7199	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3550B	8081A	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3550B	8082	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3550B	8151A	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3550B	8270C	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3550B	8270C SIM	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	Gen Prep	9045M	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	METHOD	300.0	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	METHOD	314.0	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	METHOD	6850	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	METHOD	7471A	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3050B	6010B	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3050B	6020	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3060A	7199	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3550B	8081A	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3550B	8082	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3550B	8151A	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3550B	8270C	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3550B	8270C SIM	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	Gen Prep	9045M	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	METHOD	300.0	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	METHOD	314.0	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	METHOD	7471A	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5DUP	P163883D270644B	DUP	METHOD	314.0	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5DUP	P163883D271735B	DUP	METHOD	300.0	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5MS	P163883R270708B	MS	METHOD	314.0	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5MS	P163883R271749B	MS	METHOD	300.0	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3050B	6010B	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3050B	6020	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3060A	7199	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3550B	8081A	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3550B	8082	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3550B	8151A	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3550B	8270C	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3550B	8270C SIM	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	Gen Prep	9045M	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	METHOD	300.0	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	METHOD	314.0	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3050B	6010B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3050B	6020	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3060A	7199	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3546	1625C	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3550B	8015B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3550B	8082	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3550B	8270C	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3550B	8270C SIM	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	5035	8015M	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	5035	8260B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	5035	8260B SIM	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	8330	8330A	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	Gen Prep	9045M	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	300.0	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	314.0	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	7471A	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	8015B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	8315A	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	9012B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0DUP	P163885D272017A	DUP	METHOD	9012B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0MS	P163885R272021A	MS	METHOD	9012B	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3050B	6010B	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3050B	6020	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3060A	7199	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3546	1625C	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3550B	8015B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3550B	8082	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3550B	8270C	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3550B	8270C SIM	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	5035	8015M	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	5035	8260B	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	5035	8260B SIM	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	8330	8330A	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	Gen Prep	9045M	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	METHOD	300.0	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	METHOD	314.0	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	METHOD	7471A	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	METHOD	8015B	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	METHOD	8315A	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	METHOD	9012B	III

Attachment II

00000000

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	EM
Method:	9040B
Matrix:	AQ

Sample ID: EB15-SA5B-121310 Collected: 12/13/2010 12:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PH	5.2		0.010	MDL	0.010	PQL	pH unit	J	H

Method Category:	GENCHEM
Method:	300.0
Matrix:	SO

Sample ID: DUP13-SA5C-QC-121310 Collected: 12/13/2010 10:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	16.8		0.92	MDL	1.7	PQL	mg/Kg	J	Q

Sample ID: SED-033-SIV-SD-0.0-0.5 Collected: 12/13/2010 3:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.90	J	0.85	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5C-SB-4.0-5.0 Collected: 12/13/2010 4:08:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0 Collected: 12/13/2010 9:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	13.0		0.90	MDL	1.7	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5C-SB-9.0-10.0 Collected: 12/13/2010 9:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.9		0.87	MDL	1.6	PQL	mg/Kg	J	Q

Sample ID: SL-007-SA5C-SB-4.0-5.0 Collected: 12/13/2010 12:14:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	8.0		0.87	MDL	1.6	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-007-SA5C-SB-9.0-10.0

Collected: 12/13/2010 12:14:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.88	MDL	1.7	PQL	mg/Kg	J	Z, Q

Sample ID: SL-085-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.98	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z, Q

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: DUP13-SA5C-QC-121310

Collected: 12/13/2010 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.54	J	1.00	MDL	5.62	PQL	mg/Kg	J	Z
PHOSPHORUS	397		0.630	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	3800		20.2	MDL	56.2	PQL	mg/Kg	J	Q
TIN	2.94	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	4.82	J	0.944	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SED-032-SIV-SD-0.0-0.5

Collected: 12/13/2010 2:57:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.97	J	0.998	MDL	5.61	PQL	mg/Kg	J	Z
PHOSPHORUS	386		0.628	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	2790		20.2	MDL	56.1	PQL	mg/Kg	J	Q
SODIUM	78.8	J	41.8	MDL	112	PQL	mg/Kg	J	Z
TIN	2.66	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.22	J	0.942	MDL	5.61	PQL	mg/Kg	J	Z

Sample ID: SED-033-SIV-SD-0.0-0.5

Collected: 12/13/2010 3:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.23	J	0.908	MDL	5.10	PQL	mg/Kg	J	Z
PHOSPHORUS	267		0.572	MDL	10.2	PQL	mg/Kg	J	Q
POTASSIUM	1810		18.4	MDL	51.0	PQL	mg/Kg	J	Q
SODIUM	64.8	J	38.1	MDL	102	PQL	mg/Kg	J	Z

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SED-033-SIV-SD-0.0-5.0

Collected: 12/13/2010 3:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	1.86	J	1.02	MDL	10.2	PQL	mg/Kg	U	B

Sample ID: SL-001-SA5C-SB-4.0-5.0

Collected: 12/13/2010 4:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.87	J	0.944	MDL	5.31	PQL	mg/Kg	J	Z
PHOSPHORUS	306		0.594	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2360		19.1	MDL	53.1	PQL	mg/Kg	J	Q
SODIUM	105	J	39.6	MDL	106	PQL	mg/Kg	J	Z
TIN	2.33	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

Sample ID: SL-001-SA5C-SB-9.0-10.0

Collected: 12/13/2010 4:16:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	413		0.668	MDL	11.9	PQL	mg/Kg	J	Q
POTASSIUM	4570		21.5	MDL	59.6	PQL	mg/Kg	J	Q
TIN	2.80	J	1.19	MDL	11.9	PQL	mg/Kg	U	B
Zirconium	4.76	J	1.00	MDL	5.96	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0

Collected: 12/13/2010 2:37:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.64	J	0.959	MDL	5.39	PQL	mg/Kg	J	Z
PHOSPHORUS	349		0.603	MDL	10.8	PQL	mg/Kg	J	Q
POTASSIUM	2660		19.4	MDL	53.9	PQL	mg/Kg	J	Q
TIN	2.50	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.44	J	0.905	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0

Collected: 12/13/2010 9:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	419		0.608	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	3630		19.5	MDL	54.3	PQL	mg/Kg	J	Q
TIN	2.29	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.82	J	0.912	MDL	5.43	PQL	mg/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-006-SA5C-SB-9.0-10.0

Collected: 12/13/2010 9:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.83	J	0.941	MDL	5.29	PQL	mg/Kg	J	Z
PHOSPHORUS	318		0.592	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2590		19.0	MDL	52.9	PQL	mg/Kg	J	Q
TIN	2.43	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.68	J	0.888	MDL	5.29	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5C-SB-4.0-5.0

Collected: 12/13/2010 12:14:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.96	J	0.949	MDL	5.33	PQL	mg/Kg	J	Z
PHOSPHORUS	430		0.597	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	2790		19.2	MDL	53.3	PQL	mg/Kg	J	Q
TIN	2.45	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.20	J	0.896	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5C-SB-9.0-10.0

Collected: 12/13/2010 12:14:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	310		0.605	MDL	10.8	PQL	mg/Kg	J	Q
POTASSIUM	2560		19.4	MDL	54.0	PQL	mg/Kg	J	Q
TIN	2.43	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.75	J	0.907	MDL	5.40	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:03:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.61	J	0.938	MDL	5.27	PQL	mg/Kg	J	Z
PHOSPHORUS	509		0.590	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	3410		19.0	MDL	52.7	PQL	mg/Kg	J	Q
TIN	2.61	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.25	J	0.886	MDL	5.27	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.83	J	0.939	MDL	5.28	PQL	mg/Kg	J	Z

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-077-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	517		0.591	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2400		19.0	MDL	52.8	PQL	mg/Kg	J	Q
SODIUM	90.4	J	39.4	MDL	106	PQL	mg/Kg	J	Z
TIN	2.62	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.35	J	0.886	MDL	5.28	PQL	mg/Kg	J	Z

Sample ID: SL-085-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	422		0.588	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	3390		18.9	MDL	52.5	PQL	mg/Kg	J	Q
TIN	2.65	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-087-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:17:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.31	J	0.954	MDL	5.36	PQL	mg/Kg	J	Z
PHOSPHORUS	451		0.600	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	3220		19.3	MDL	53.6	PQL	mg/Kg	J	Q
TIN	2.61	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.44	J	0.900	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-091-SA5B-SS-0.0-0.5

Collected: 12/13/2010 3:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	518		0.586	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	4880		18.8	MDL	52.3	PQL	mg/Kg	J	Q
TIN	2.86	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.18	J	0.879	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-095-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.36	J	0.928	MDL	5.21	PQL	mg/Kg	J	Z
PHOSPHORUS	441		0.584	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	3440		18.8	MDL	52.1	PQL	mg/Kg	J	Q

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-095-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.88	J	0.875	MDL	5.21	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: AQ

Sample ID: EB15-SA5B-121310

Collected: 12/13/2010 12:15:00

Analysis Type: REA6

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000099	J	0.000052	MDL	0.0010	PQL	mg/L	J	Z

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP13-SA5C-QC-121310

Collected: 12/13/2010 10:10:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.102	J	0.0409	MDL	0.114	PQL	mg/Kg	J	Z, Q

Sample ID: DUP13-SA5C-QC-121310

Collected: 12/13/2010 10:10:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.340	J	0.0454	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: DUP13-SA5C-QC-121310

Collected: 12/13/2010 10:10:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.419		0.0568	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: DUP13-SA5C-QC-121310

Collected: 12/13/2010 10:10:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	123		0.123	MDL	0.454	PQL	mg/Kg	J	A

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS
Method:	6020
Matrix:	SO

Sample ID: DUP13-SA5C-QC-121310

Collected: 12/13/2010 10:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.214	J	0.0681	MDL	0.227	PQL	mg/Kg	J	Z, Q
ARSENIC	7.66		0.0681	MDL	0.454	PQL	mg/Kg	J	Q
LEAD	9.46		0.0118	MDL	0.227	PQL	mg/Kg	J	Q, A
SILVER	0.0310	J	0.0136	MDL	0.114	PQL	mg/Kg	J	Z, Q
ZINC	91.3		0.636	MDL	3.41	PQL	mg/Kg	J	A

Sample ID: SED-032-SIV-SD-0.0-0.5

Collected: 12/13/2010 2:57:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.249		0.0404	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SED-032-SIV-SD-0.0-0.5

Collected: 12/13/2010 2:57:00

Analysis Type: REA2

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	25.0		0.0292	MDL	0.561	PQL	mg/Kg	J	Q, A

Sample ID: SED-032-SIV-SD-0.0-0.5

Collected: 12/13/2010 2:57:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.168	J	0.0449	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SED-032-SIV-SD-0.0-0.5

Collected: 12/13/2010 2:57:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.707		0.0561	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SED-032-SIV-SD-0.0-0.5

Collected: 12/13/2010 2:57:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.121	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SED-032-SIV-SD-0.0-0.5

Collected: 12/13/2010 2:57:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.192	J	0.0673	MDL	0.224	PQL	mg/Kg	J	Z, Q
ARSENIC	8.28		0.0673	MDL	0.449	PQL	mg/Kg	J	Q
SILVER	1.39		0.0135	MDL	0.112	PQL	mg/Kg	J	Q

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-032-SIV-SD-0.0-0.5

Collected: 12/13/2010 2:57:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	109		0.628	MDL	3.37	PQL	mg/Kg	J	A

Sample ID: SED-033-SIV-SD-0.0-0.5

Collected: 12/13/2010 3:40:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.150		0.0375	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SED-033-SIV-SD-0.0-0.5

Collected: 12/13/2010 3:40:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.209	J	0.0416	MDL	0.416	PQL	mg/Kg	J	Z

Sample ID: SED-033-SIV-SD-0.0-0.5

Collected: 12/13/2010 3:40:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.691		0.0520	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SED-033-SIV-SD-0.0-0.5

Collected: 12/13/2010 3:40:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	133		0.112	MDL	0.416	PQL	mg/Kg	J	A

Sample ID: SED-033-SIV-SD-0.0-0.5

Collected: 12/13/2010 3:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.286		0.0624	MDL	0.208	PQL	mg/Kg	J	Q
ARSENIC	9.50		0.0624	MDL	0.416	PQL	mg/Kg	J	Q
LEAD	15.0		0.0108	MDL	0.208	PQL	mg/Kg	J	Q, A
SILVER	0.329		0.0125	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	118		0.583	MDL	3.12	PQL	mg/Kg	J	A

Sample ID: SL-001-SA5C-SB-4.0-5.0

Collected: 12/13/2010 4:08:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0626	J	0.0382	MDL	0.106	PQL	mg/Kg	J	Z, Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-001-SA5C-SB-4.0-5.0

Collected: 12/13/2010 4:08:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.153	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5C-SB-4.0-5.0

Collected: 12/13/2010 4:08:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.760		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-001-SA5C-SB-4.0-5.0

Collected: 12/13/2010 4:08:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	89.2		0.115	MDL	0.424	PQL	mg/Kg	J	A

Sample ID: SL-001-SA5C-SB-4.0-5.0

Collected: 12/13/2010 4:08:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0994	J	0.0637	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	7.96		0.0637	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	5.49		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, A
SILVER	0.0190	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
ZINC	79.0		0.594	MDL	3.18	PQL	mg/Kg	J	A

Sample ID: SL-001-SA5C-SB-9.0-10.0

Collected: 12/13/2010 4:16:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.212		0.0434	MDL	0.120	PQL	mg/Kg	J	Q

Sample ID: SL-001-SA5C-SB-9.0-10.0

Collected: 12/13/2010 4:16:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.190	J	0.0482	MDL	0.482	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5C-SB-9.0-10.0

Collected: 12/13/2010 4:16:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.12		0.0602	MDL	0.120	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-001-SA5C-SB-9.0-10.0

Collected: 12/13/2010 4:16:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	203		0.130	MDL	0.482	PQL	mg/Kg	J	A

Sample ID: SL-001-SA5C-SB-9.0-10.0

Collected: 12/13/2010 4:16:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.559		0.0723	MDL	0.241	PQL	mg/Kg	J	Q
ARSENIC	12.2		0.0723	MDL	0.482	PQL	mg/Kg	J	Q
LEAD	13.0		0.0125	MDL	0.241	PQL	mg/Kg	J	Q, A
SILVER	0.0765	J	0.0145	MDL	0.120	PQL	mg/Kg	J	Z, Q
ZINC	115		0.675	MDL	3.61	PQL	mg/Kg	J	A

Sample ID: SL-003-SA5C-SB-4.0-5.0

Collected: 12/13/2010 2:37:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0875	J	0.0373	MDL	0.104	PQL	mg/Kg	J	Z, Q

Sample ID: SL-003-SA5C-SB-4.0-5.0

Collected: 12/13/2010 2:37:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.177	J	0.0414	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0

Collected: 12/13/2010 2:37:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.780		0.0518	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-003-SA5C-SB-4.0-5.0

Collected: 12/13/2010 2:37:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	119		0.112	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: SL-003-SA5C-SB-4.0-5.0

Collected: 12/13/2010 2:37:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.174	J	0.0622	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	7.50		0.0622	MDL	0.414	PQL	mg/Kg	J	Q
LEAD	6.10		0.0108	MDL	0.207	PQL	mg/Kg	J	Q, A

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-003-SA5C-SB-4.0-5.0

Collected: 12/13/2010 2:37:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0366	J	0.0124	MDL	0.104	PQL	mg/Kg	J	Z, Q
ZINC	89.1		0.580	MDL	3.11	PQL	mg/Kg	J	A

Sample ID: SL-006-SA5C-SB-4.0-5.0

Collected: 12/13/2010 9:45:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.108	J	0.0402	MDL	0.112	PQL	mg/Kg	J	Z, Q

Sample ID: SL-006-SA5C-SB-4.0-5.0

Collected: 12/13/2010 9:45:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.299	J	0.0447	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0

Collected: 12/13/2010 9:45:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.517		0.0559	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5C-SB-4.0-5.0

Collected: 12/13/2010 9:45:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	128		0.121	MDL	0.447	PQL	mg/Kg	J	A

Sample ID: SL-006-SA5C-SB-4.0-5.0

Collected: 12/13/2010 9:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.272		0.0670	MDL	0.223	PQL	mg/Kg	J	Q
ARSENIC	6.87		0.0670	MDL	0.447	PQL	mg/Kg	J	Q
LEAD	9.45		0.0116	MDL	0.223	PQL	mg/Kg	J	Q, A
SILVER	0.0341	J	0.0134	MDL	0.112	PQL	mg/Kg	J	Z, Q
ZINC	81.2		0.626	MDL	3.35	PQL	mg/Kg	J	A

Sample ID: SL-006-SA5C-SB-9.0-10.0

Collected: 12/13/2010 9:55:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.248		0.0388	MDL	0.108	PQL	mg/Kg	J	Q

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Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-006-SA5C-SB-9.0-10.0

Collected: 12/13/2010 9:55:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.241	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-9.0-10.0

Collected: 12/13/2010 9:55:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.790		0.0539	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5C-SB-9.0-10.0

Collected: 12/13/2010 9:55:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	106		0.116	MDL	0.431	PQL	mg/Kg	J	A

Sample ID: SL-006-SA5C-SB-9.0-10.0

Collected: 12/13/2010 9:55:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.296		0.0647	MDL	0.216	PQL	mg/Kg	J	Q
ARSENIC	11.4		0.0647	MDL	0.431	PQL	mg/Kg	J	Q
LEAD	13.0		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, A
SILVER	0.0704	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
ZINC	114		0.604	MDL	3.24	PQL	mg/Kg	J	A

Sample ID: SL-007-SA5C-SB-4.0-5.0

Collected: 12/13/2010 12:14:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0887	J	0.0388	MDL	0.108	PQL	mg/Kg	J	Z, Q

Sample ID: SL-007-SA5C-SB-4.0-5.0

Collected: 12/13/2010 12:14:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.141	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5C-SB-4.0-5.0

Collected: 12/13/2010 12:14:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.684		0.0539	MDL	0.108	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-007-SA5C-SB-4.0-5.0

Collected: 12/13/2010 12:14:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	138		0.116	MDL	0.431	PQL	mg/Kg	J	A

Sample ID: SL-007-SA5C-SB-4.0-5.0

Collected: 12/13/2010 12:14:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.156	J	0.0646	MDL	0.215	PQL	mg/Kg	J	Z, Q
ARSENIC	6.80		0.0646	MDL	0.431	PQL	mg/Kg	J	Q
LEAD	6.51		0.0112	MDL	0.215	PQL	mg/Kg	J	Q, A
SILVER	0.0301	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
ZINC	94.7		0.603	MDL	3.23	PQL	mg/Kg	J	A

Sample ID: SL-007-SA5C-SB-9.0-10.0

Collected: 12/13/2010 12:14:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.128		0.0385	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-007-SA5C-SB-9.0-10.0

Collected: 12/13/2010 12:14:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.185	J	0.0428	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5C-SB-9.0-10.0

Collected: 12/13/2010 12:14:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.16		0.0535	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-007-SA5C-SB-9.0-10.0

Collected: 12/13/2010 12:14:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	132		0.115	MDL	0.428	PQL	mg/Kg	J	A

Sample ID: SL-007-SA5C-SB-9.0-10.0

Collected: 12/13/2010 12:14:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.132	J	0.0642	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	9.29		0.0642	MDL	0.428	PQL	mg/Kg	J	Q
LEAD	7.95		0.0111	MDL	0.214	PQL	mg/Kg	J	Q, A

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Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-007-SA5C-SB-9.0-10.0

Collected: 12/13/2010 12:14:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0588	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z, Q
ZINC	90.9		0.599	MDL	3.21	PQL	mg/Kg	J	A

Sample ID: SL-075-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:03:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.173		0.0376	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-075-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:03:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.199	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:03:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.843		0.0522	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-075-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:03:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	151		0.113	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-075-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:03:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.193	J	0.0626	MDL	0.209	PQL	mg/Kg	J	Z, Q
ARSENIC	8.68		0.0626	MDL	0.418	PQL	mg/Kg	J	Q
LEAD	10.0		0.0109	MDL	0.209	PQL	mg/Kg	J	Q, A
SILVER	0.173		0.0125	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	127		0.585	MDL	3.13	PQL	mg/Kg	J	A

Sample ID: SL-077-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:04:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.130		0.0380	MDL	0.106	PQL	mg/Kg	J	Q

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-077-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:04:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0944	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:04:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.538		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-077-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:04:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.9		0.114	MDL	0.422	PQL	mg/Kg	J	A

Sample ID: SL-077-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:04:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.215		0.0633	MDL	0.211	PQL	mg/Kg	J	Q
ARSENIC	8.71		0.0633	MDL	0.422	PQL	mg/Kg	J	Q
LEAD	6.50		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, A
SILVER	0.0576	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
ZINC	84.3		0.591	MDL	3.17	PQL	mg/Kg	J	A

Sample ID: SL-085-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:35:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.490		0.0371	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-085-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:35:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.237	J	0.0412	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-085-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:35:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	10.7		0.0515	MDL	0.103	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-085-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:35:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	179		0.111	MDL	0.412	PQL	mg/Kg	J	A

Sample ID: SL-085-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.470		0.0618	MDL	0.206	PQL	mg/Kg	J	Q
ARSENIC	8.71		0.0618	MDL	0.412	PQL	mg/Kg	J	Q
LEAD	13.3		0.0107	MDL	0.206	PQL	mg/Kg	J	Q, A
SILVER	0.0715	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z, Q
ZINC	147		0.577	MDL	3.09	PQL	mg/Kg	J	A

Sample ID: SL-087-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:17:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.282		0.0382	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-087-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:17:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.136	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-087-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:17:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.19		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-087-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:17:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	143		0.115	MDL	0.424	PQL	mg/Kg	J	A

Sample ID: SL-087-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:17:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.405		0.0637	MDL	0.212	PQL	mg/Kg	J	Q
ARSENIC	8.58		0.0637	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	10.9		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, A

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-087-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:17:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.841		0.0127	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	133		0.594	MDL	3.18	PQL	mg/Kg	J	A

Sample ID: SL-091-SA5B-SS-0.0-0.5

Collected: 12/13/2010 3:10:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.271		0.0380	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-091-SA5B-SS-0.0-0.5

Collected: 12/13/2010 3:10:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.334	J	0.0423	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-091-SA5B-SS-0.0-0.5

Collected: 12/13/2010 3:10:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.31		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-091-SA5B-SS-0.0-0.5

Collected: 12/13/2010 3:10:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	175		0.114	MDL	0.423	PQL	mg/Kg	J	A

Sample ID: SL-091-SA5B-SS-0.0-0.5

Collected: 12/13/2010 3:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.437		0.0634	MDL	0.211	PQL	mg/Kg	J	Q
ARSENIC	10.8		0.0634	MDL	0.423	PQL	mg/Kg	J	Q
LEAD	15.2		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, A
SILVER	0.0585	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
ZINC	182		0.592	MDL	3.17	PQL	mg/Kg	J	A

Sample ID: SL-095-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:40:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.278		0.0364	MDL	0.101	PQL	mg/Kg	J	Q

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-095-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:40:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.159	J	0.0405	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SL-095-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:40:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.17		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-095-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:40:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	162		0.109	MDL	0.405	PQL	mg/Kg	J	A

Sample ID: SL-095-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.330		0.0607	MDL	0.202	PQL	mg/Kg	J	Q
ARSENIC	7.12		0.0607	MDL	0.405	PQL	mg/Kg	J	Q
LEAD	10.9		0.0105	MDL	0.202	PQL	mg/Kg	J	Q, A
SILVER	0.0526	J	0.0121	MDL	0.101	PQL	mg/Kg	J	Z, Q
ZINC	126		0.567	MDL	3.04	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: DUP13-SA5C-QC-121310

Collected: 12/13/2010 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5C-SB-4.0-5.0

Collected: 12/13/2010 4:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.79	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-001-SA5C-SB-9.0-10.0

Collected: 12/13/2010 4:16:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0

Collected: 12/13/2010 2:37:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.82	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0

Collected: 12/13/2010 9:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-9.0-10.0

Collected: 12/13/2010 9:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:03:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-085-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-087-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:17:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-091-SA5B-SS-0.0-0.5

Collected: 12/13/2010 3:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-095-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SED-032-SIV-SD-0.0-0.5

Collected: 12/13/2010 2:57:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0148	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5C-SB-9.0-10.0

Collected: 12/13/2010 4:16:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0073	J	0.0033	MDL	0.116	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0

Collected: 12/13/2010 2:37:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0131	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5C-SB-9.0-10.0

Collected: 12/13/2010 12:14:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0043	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0036	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-087-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:17:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0304	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-091-SA5B-SS-0.0-0.5

Collected: 12/13/2010 3:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0218	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C

Matrix: SO

Sample ID: DUP13-SA5C-QC-121310

Collected: 12/13/2010 10:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	129		19.1	MDL	38.2	PQL	ng/Kg	J	FD

Sample ID: SL-006-SA5C-SB-4.0-5.0

Collected: 12/13/2010 9:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	18.8	U	18.8	MDL	37.6	PQL	ng/Kg	UJ	Q, FD

Sample ID: SL-085-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	108	J	89.3	MDL	179	PQL	ng/Kg	J	Z

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SED-032-SIV-SD-0.0-0.5

Collected: 12/13/2010 2:57:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.35		0.069	MDL	0.19	PQL	ug/Kg	J	S
DELTA-BHC	0.19		0.041	MDL	0.19	PQL	ug/Kg	J	S

Sample ID: SED-033-SIV-SD-0.0-0.5

Collected: 12/13/2010 3:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.16	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-095-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.12	J	0.038	MDL	0.17	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: DUP13-SA5C-QC-121310

Collected: 12/13/2010 10:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.44	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, FD

Sample ID: SED-033-SIV-SD-0.0-0.5

Collected: 12/13/2010 3:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.7	J	0.70	MDL	3.6	PQL	ug/Kg	J	Z
AROCLOR 1260	2.1	J	0.70	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0

Collected: 12/13/2010 2:37:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.3	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.61	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0

Collected: 12/13/2010 9:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.97	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S, FD

Sample ID: SL-007-SA5C-SB-4.0-5.0

Collected: 12/13/2010 12:14:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.71	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	1.9	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-007-SA5C-SB-9.0-10.0

Collected: 12/13/2010 12:14:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.4	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1254	1.1	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.88	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-075-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:03:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.9	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-077-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.4	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	1.3	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-085-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:35:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	9.7	J	5.4	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-087-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:17:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	5.1	J	2.2	MDL	7.2	PQL	ug/Kg	J	Z

Sample ID: SL-091-SA5B-SS-0.0-0.5

Collected: 12/13/2010 3:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	38		0.72	MDL	3.7	PQL	ug/Kg	J	S
Aroclor 5460	2.8	J	2.2	MDL	7.2	PQL	ug/Kg	J	Z, S

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA
Method:	8151A
Matrix:	SO

Sample ID: SED-032-SIV-SD-0.0-0.5 Collected: 12/13/2010 2:57:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.92	U	0.92	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SED-033-SIV-SD-0.0-0.5 Collected: 12/13/2010 3:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	5.1		0.66	MDL	1.8	PQL	ug/Kg	U	B
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-075-SA5B-SS-0.0-0.5 Collected: 12/13/2010 9:03:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.94	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z, Q
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L
MCPP	280		80	MDL	270	PQL	ug/Kg	U	B

Sample ID: SL-077-SA5B-SS-0.0-0.5 Collected: 12/13/2010 10:04:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-085-SA5B-SS-0.0-0.5 Collected: 12/13/2010 1:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.6	J	0.66	MDL	1.8	PQL	ug/Kg	U	B
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L
MCPA	200	J	81	MDL	270	PQL	ug/Kg	J	Z
MCPP	130	J	80	MDL	270	PQL	ug/Kg	U	B

Sample ID: SL-087-SA5B-SS-0.0-0.5 Collected: 12/13/2010 1:17:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	2.9		0.68	MDL	1.9	PQL	ug/Kg	U	B
DICAMBA	0.54	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA								
Method:	8151A			Matrix:	SO				

Sample ID: SL-091-SA5B-SS-0.0-0.5 Collected: 12/13/2010 3:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-095-SA5B-SS-0.0-0.5 Collected: 12/13/2010 2:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	3.9		0.65	MDL	1.8	PQL	ug/Kg	U	B
DICAMBA	0.55	J	0.42	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Method Category:	SVOA								
Method:	8270C			Matrix:	AQ				

Sample ID: EB15-SA5B-121310 Collected: 12/13/2010 12:15:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

Method Category:	SVOA								
Method:	8270C			Matrix:	SO				

Sample ID: SED-032-SIV-SD-0.0-0.5 Collected: 12/13/2010 2:57:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	43	J	19	MDL	190	PQL	ug/Kg	J	Z
ANTHRACENE	37	J	19	MDL	190	PQL	ug/Kg	J	Z
CARBAZOLE	24	J	19	MDL	190	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	120	J	19	MDL	190	PQL	ug/Kg	J	Z
PHENANTHRENE	110	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0 Collected: 12/13/2010 9:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-CHLOROPHENYL-PHENYLETHER	38	U	38	MDL	190	PQL	ug/Kg	UJ	Q
BENZIDINE	1300	U	1300	MDL	3800	PQL	ug/Kg	UJ	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: AQ

Sample ID: EB15-SA5B-121310

Collected: 12/13/2010 12:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	0.24	J	0.050	MDL	1.0	PQL	ug/L	U	B
Butylbenzylphthalate	0.093	J	0.050	MDL	1.0	PQL	ug/L	U	B
Diethylphthalate	0.11	J	0.050	MDL	1.0	PQL	ug/L	U	B
Di-n-butylphthalate	0.31	J	0.050	MDL	1.0	PQL	ug/L	U	B
Di-n-octylphthalate	0.082	J	0.050	MDL	1.0	PQL	ug/L	U	B
NAPHTHALENE	0.033	J	0.010	MDL	0.050	PQL	ug/L	J	Z
PHENANTHRENE	0.018	J	0.010	MDL	0.050	PQL	ug/L	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: DUP13-SA5C-QC-121310

Collected: 12/13/2010 10:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	10	J	6.9	MDL	21	PQL	ug/Kg	U	B
CHRYSENE	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	FD

Sample ID: SED-032-SIV-SD-0.0-0.5

Collected: 12/13/2010 2:57:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.49	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	30		6.9	MDL	21	PQL	ug/Kg	U	B

Sample ID: SED-033-SIV-SD-0.0-0.5

Collected: 12/13/2010 3:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.94	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	0.96	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	0.99	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	17	J	6.4	MDL	19	PQL	ug/Kg	U	B
NAPHTHALENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0

Collected: 12/13/2010 2:37:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/15/2011 5:57:57 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-003-SA5C-SB-4.0-5.0

Collected: 12/13/2010 2:37:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.90	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.76	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.7	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0

Collected: 12/13/2010 9:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	9.0	J	6.8	MDL	20	PQL	ug/Kg	U	B
CHRYSENE	0.46	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, FD

Sample ID: SL-007-SA5C-SB-9.0-10.0

Collected: 12/13/2010 12:14:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	12	J	6.6	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.98	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-075-SA5B-SS-0.0-0.5

Collected: 12/13/2010 9:03:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.49	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	10	J	6.4	MDL	19	PQL	ug/Kg	U	B
DIBENZO(A,H)ANTHRACENE	0.78	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.2	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-077-SA5B-SS-0.0-0.5

Collected: 12/13/2010 10:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.7	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	9.0	J	6.5	MDL	19	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	1.2	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-085-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	14	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.0	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.99	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-087-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:17:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	14	J	6.6	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.91	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-091-SA5B-SS-0.0-0.5

Collected: 12/13/2010 3:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	25		6.5	MDL	20	PQL	ug/Kg	U	B
NAPHTHALENE	0.74	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-095-SA5B-SS-0.0-0.5

Collected: 12/13/2010 2:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	16	J	6.3	MDL	19	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	1.4	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.2	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8315A

Matrix: SO

Sample ID: SL-006-SA5C-SB-9.0-10.0

Collected: 12/13/2010 9:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	990	J	650	MDL	1600	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B

Matrix: SO

Sample ID: SL-003-SA5C-SB-4.0-5.0

Collected: 12/13/2010 2:37:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	110	J	110	MDL	540	PQL	ug/Kg	J	Z

Sample ID: SL-007-SA5C-SB-9.0-10.0

Collected: 12/13/2010 12:14:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	140	J	110	MDL	550	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B

Matrix: AQ

Sample ID: EB15-SA5B-121310

Collected: 12/13/2010 12:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	7	J	6	MDL	20	PQL	ug/L	J	Z

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: DUP13-SA5C-QC-121310

Collected: 12/13/2010 10:10:00

Analysis Type: RES

Dilution: 1.1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.97	J	0.30	MDL	5.1	PQL	ug/Kg	U	B

Sample ID: SL-001-SA5C-SB-4.0-5.0

Collected: 12/13/2010 4:08:00

Analysis Type: RES

Dilution: 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	3.0	J	0.25	MDL	4.1	PQL	ug/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-001-SA5C-SB-9.0-10.0

Collected: 12/13/2010 4:16:00

Analysis Type: RES

Dilution: 0.85

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	5.6	J	1.2	MDL	8.2	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.5	J	0.24	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0

Collected: 12/13/2010 2:37:00

Analysis Type: RES

Dilution: 0.93

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.13	J	0.12	MDL	4.0	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	2.4	J	0.24	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-006-SA5C-SB-4.0-5.0

Collected: 12/13/2010 9:45:00

Analysis Type: RES

Dilution: 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.63	J	0.26	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-006-SA5C-SB-9.0-10.0

Collected: 12/13/2010 9:55:00

Analysis Type: RES

Dilution: 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.7	J	7.3	MDL	8.8	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.1	J	0.26	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-007-SA5C-SB-4.0-5.0

Collected: 12/13/2010 12:14:00

Analysis Type: RES

Dilution: 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.14	J	0.12	MDL	4.0	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	2.5	J	0.24	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-007-SA5C-SB-9.0-10.0

Collected: 12/13/2010 12:14:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.4	J	0.26	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-085-SA5B-SS-0.0-0.5

Collected: 12/13/2010 1:35:00

Analysis Type: RES

Dilution: 1.29

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.5	J	0.33	MDL	5.5	PQL	ug/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DE037

EDD Filename: DE037_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation

Data Qualifier Summary

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE037

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 9040B

Preparation Method: Gen Prep

Matrix: AQ

<i>Sample ID</i>	<i>Type</i>	<i>Actual</i>	<i>Criteria</i>	<i>Units</i>	<i>Flag</i>
EB15-SA5B-121310 (RES)	Sampling To Analysis	103.00	48.00	HOURS	J (all detects) R (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35548CB221648	12/23/2010 4:48:00 PM	MAGNESIUM	0.0421 mg/L	EB15-SA5B-121310
P35548CB222358	12/22/2010 11:58:00 PM	CALCIUM	0.0960 mg/L	EB15-SA5B-121310

Method: 6010B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35108CB221941	12/20/2010 7:41:00 PM	PHOSPHORUS TIN	1.63 mg/Kg 1.28 mg/Kg	DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP13-SA5C-QC-121310(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SED-032-SIV-SD-0.0-0.5(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SED-033-SIV-SD-0.0-0.5(RES)	TIN	1.86 mg/Kg	1.86U mg/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	TIN	2.33 mg/Kg	2.33U mg/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-003-SA5C-SB-4.0-5.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	TIN	2.29 mg/Kg	2.29U mg/Kg
SL-006-SA5C-SB-9.0-10.0(RES)	TIN	2.43 mg/Kg	2.43U mg/Kg
SL-007-SA5C-SB-4.0-5.0(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg
SL-007-SA5C-SB-9.0-10.0(RES)	TIN	2.43 mg/Kg	2.43U mg/Kg
SL-075-SA5B-SS-0.0-0.5(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-077-SA5B-SS-0.0-0.5(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-085-SA5B-SS-0.0-0.5(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-087-SA5B-SS-0.0-0.5(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-091-SA5B-SS-0.0-0.5(RES)	TIN	2.86 mg/Kg	2.86U mg/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8015B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P50505AB321750A	12/17/2010 5:50:00 PM	METHANOL	110 ug/Kg	DUP13-SA5C-QC-121310 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0

Method: 8151A

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P51516AB242352A	12/20/2010 11:52:00 PM	2,4-DB MCP	1.2 ug/Kg 160 ug/Kg	SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SED-033-SIV-SD-0.0-0.5(RES)	2,4-DB	5.1 ug/Kg	5.1U ug/Kg
SL-075-SA5B-SS-0.0-0.5(RES)	MCP	280 ug/Kg	280U ug/Kg
SL-085-SA5B-SS-0.0-0.5(RES)	2,4-DB	1.6 ug/Kg	1.8U ug/Kg
SL-085-SA5B-SS-0.0-0.5(RES)	MCP	130 ug/Kg	270U ug/Kg
SL-087-SA5B-SS-0.0-0.5(RES)	2,4-DB	2.9 ug/Kg	2.9U ug/Kg
SL-095-SA5B-SS-0.0-0.5(RES)	2,4-DB	3.9 ug/Kg	3.9U ug/Kg

Method: 8260B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB16B212115A	12/14/2010 9:15:00 PM	CHLOROFORM METHYLENE CHLORIDE TOLUENE	0.22 ug/Kg 1.3 ug/Kg 0.09 ug/Kg	DUP13-SA5C-QC-121310 SL-001-SA5C-SB-4.0-5.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-085-SA5B-SS-0.0-0.5
VBLKB18B211848A	12/16/2010 6:48:00 PM	CHLOROFORM METHYLENE CHLORIDE	0.37 ug/Kg 1.0 ug/Kg	SL-001-SA5C-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP13-SA5C-QC-121310(RES)	METHYLENE CHLORIDE	0.97 ug/Kg	5.1U ug/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	3.0 ug/Kg	4.1U ug/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	4.1U ug/Kg
SL-003-SA5C-SB-4.0-5.0(RES)	CHLOROFORM	0.13 ug/Kg	4.0U ug/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8260B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-003-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.4 ug/Kg	4.0U ug/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.63 ug/Kg	4.3U ug/Kg
SL-006-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	4.4U ug/Kg
SL-007-SA5C-SB-4.0-5.0(RES)	CHLOROFORM	0.14 ug/Kg	4.0U ug/Kg
SL-007-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.5 ug/Kg	4.0U ug/Kg
SL-007-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.4 ug/Kg	4.4U ug/Kg
SL-085-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	5.5U ug/Kg

Method: 8270C

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLB35B262253	1/3/2011 10:53:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE Diethylphthalate	18 ug/Kg 28 ug/Kg	DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5

Method: 8270C SIM

Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWI34B262040	12/22/2010 8:40:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE Butylbenzylphthalate Diethylphthalate Di-n-butylphthalate Di-n-octylphthalate	0.11 ug/L 0.076 ug/L 0.063 ug/L 0.13 ug/L 0.084 ug/L	EB15-SA5B-121310

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB15-SA5B-121310(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.24 ug/L	1.0U ug/L
EB15-SA5B-121310(RES)	Butylbenzylphthalate	0.093 ug/L	1.0U ug/L
EB15-SA5B-121310(RES)	Diethylphthalate	0.11 ug/L	1.0U ug/L

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB15-SA5B-121310(RES)	Di-n-butylphthalate	0.31 ug/L	1.0U ug/L
EB15-SA5B-121310(RES)	Di-n-octylphthalate	0.082 ug/L	1.0U ug/L

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLC35B261309	12/29/2010 1:09:00 PM	BIS(2-ETHYLHEXYL)PHthalate	6.3 ug/Kg	DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP13-SA5C-QC-121310(RES)	BIS(2-ETHYLHEXYL)PHthalate	10 ug/Kg	21U ug/Kg
SED-032-SIV-SD-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHthalate	30 ug/Kg	30U ug/Kg
SED-033-SIV-SD-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHthalate	17 ug/Kg	19U ug/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHthalate	9.0 ug/Kg	20U ug/Kg
SL-075-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHthalate	10 ug/Kg	19U ug/Kg
SL-077-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHthalate	9.0 ug/Kg	19U ug/Kg
SL-091-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHthalate	25 ug/Kg	25U ug/Kg
SL-095-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHthalate	16 ug/Kg	19U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-006-SA5C-SB-4.0-5.0MS (DUP13-SA5C-QC-121310 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	Nitrate-NO3	152	-	80.00-120.00	-	Nitrate-NO3	J (all detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-075-SA5B-SS-0.0-0.5MS SL-075-SA5B-SS-0.0-0.5MSD (SL-075-SA5B-SS-0.0-0.5)	2,4-D 2,4-DB DALAPON MCPA	- 188 - 232	- - 100 199	28.00-161.00 20.00-170.00 12.00-86.00 31.00-184.00	56 (35.00) - 72 (50.00) -	2,4-D 2,4-DB DALAPON MCPA	J(all detects)
SL-075-SA5B-SS-0.0-0.5MS SL-075-SA5B-SS-0.0-0.5MSD (SL-075-SA5B-SS-0.0-0.5)	DICAMBA	5	5	33.00-120.00	-	DICAMBA	J(all detects) UJ(all non-detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-006-SA5C-SB-4.0-5.0MS SL-006-SA5C-SB-4.0-5.0MSD (DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	ARSENIC CADMIUM SILVER ZINC	140 129 - -	155 138 130 152	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ARSENIC CADMIUM SILVER ZINC	J(all detects) Zn No Qual, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-006-SA5C-SB-4.0-5.0MS SL-006-SA5C-SB-4.0-5.0MSD (DUP13 -SA5C-QC-121310 SED -032-SIV-SD-0.0-0.5 SED -033-SIV-SD-0.0-0.5 SL -001-SA5C-SB-4.0-5.0 SL -001-SA5C-SB-9.0-10.0 SL -003-SA5C-SB-4.0-5.0 SL -006-SA5C-SB-4.0-5.0 SL -006-SA5C-SB-9.0-10.0 SL -007-SA5C-SB-4.0-5.0 SL -007-SA5C-SB-9.0-10.0 SL -075-SA5B-SS-0.0-0.5 SL -077-SA5B-SS-0.0-0.5 SL -085-SA5B-SS-0.0-0.5 SL -087-SA5B-SS-0.0-0.5 SL -091-SA5B-SS-0.0-0.5 SL -095-SA5B-SS-0.0-0.5)	ANTIMONY LEAD	51 -	58 67	75.00-125.00 75.00-125.00	- -	ANTIMONY LEAD	J(all detects) UJ(all non-detects)
SL-006-SA5C-SB-4.0-5.0MSD (DUP13 -SA5C-QC-121310 SED -032-SIV-SD-0.0-0.5 SED -033-SIV-SD-0.0-0.5 SL -001-SA5C-SB-4.0-5.0 SL -001-SA5C-SB-9.0-10.0 SL -003-SA5C-SB-4.0-5.0 SL -006-SA5C-SB-4.0-5.0 SL -006-SA5C-SB-9.0-10.0 SL -007-SA5C-SB-4.0-5.0 SL -007-SA5C-SB-9.0-10.0 SL -075-SA5B-SS-0.0-0.5 SL -077-SA5B-SS-0.0-0.5 SL -085-SA5B-SS-0.0-0.5 SL -087-SA5B-SS-0.0-0.5 SL -091-SA5B-SS-0.0-0.5 SL -095-SA5B-SS-0.0-0.5)	MOLYBDENUM	-	133	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-006-SA5C-SB-4.0-5.0MS (DUP13 -SA5C-QC-121310 SED -032-SIV-SD-0.0-0.5 SED -033-SIV-SD-0.0-0.5 SL -001-SA5C-SB-4.0-5.0 SL -001-SA5C-SB-9.0-10.0 SL -003-SA5C-SB-4.0-5.0 SL -006-SA5C-SB-4.0-5.0 SL -006-SA5C-SB-9.0-10.0 SL -007-SA5C-SB-4.0-5.0 SL -007-SA5C-SB-9.0-10.0 SL -075-SA5B-SS-0.0-0.5 SL -077-SA5B-SS-0.0-0.5 SL -085-SA5B-SS-0.0-0.5 SL -087-SA5B-SS-0.0-0.5 SL -091-SA5B-SS-0.0-0.5 SL -095-SA5B-SS-0.0-0.5)	BARIUM	63	-	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-006-SA5C-SB-4.0-5.0MS SL-006-SA5C-SB-4.0-5.0MSD (DUP13-SA5C-QC-121310 SED -032-SIV-SD-0.0-0.5 SED -033-SIV-SD-0.0-0.5 SL -001-SA5C-SB-4.0-5.0 SL -001-SA5C-SB-9.0-10.0 SL -003-SA5C-SB-4.0-5.0 SL -006-SA5C-SB-4.0-5.0 SL -006-SA5C-SB-9.0-10.0 SL -007-SA5C-SB-4.0-5.0 SL -007-SA5C-SB-9.0-10.0 SL -075-SA5B-SS-0.0-0.5 SL -077-SA5B-SS-0.0-0.5 SL -085-SA5B-SS-0.0-0.5 SL -087-SA5B-SS-0.0-0.5 SL -091-SA5B-SS-0.0-0.5 SL -095-SA5B-SS-0.0-0.5)	ALUMINUM IRON MANGANESE POTASSIUM TITANIUM	1450 483 187 134 528	1167 835 180 - 467	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM IRON MANGANESE POTASSIUM TITANIUM	J(all detects) Al, Fe, Mn, Ti No Qual, >4x
SL-006-SA5C-SB-4.0-5.0MS SL-006-SA5C-SB-4.0-5.0MSD (DUP13-SA5C-QC-121310 SED -032-SIV-SD-0.0-0.5 SED -033-SIV-SD-0.0-0.5 SL -001-SA5C-SB-4.0-5.0 SL -001-SA5C-SB-9.0-10.0 SL -003-SA5C-SB-4.0-5.0 SL -006-SA5C-SB-4.0-5.0 SL -006-SA5C-SB-9.0-10.0 SL -007-SA5C-SB-4.0-5.0 SL -007-SA5C-SB-9.0-10.0 SL -075-SA5B-SS-0.0-0.5 SL -077-SA5B-SS-0.0-0.5 SL -085-SA5B-SS-0.0-0.5 SL -087-SA5B-SS-0.0-0.5 SL -091-SA5B-SS-0.0-0.5 SL -095-SA5B-SS-0.0-0.5)	CALCIUM MAGNESIUM	-144 -242	-221 -219	75.00-125.00 75.00-125.00	- -	CALCIUM MAGNESIUM	No Qual, >4x
SL-006-SA5C-SB-4.0-5.0MS (DUP13-SA5C-QC-121310 SED -032-SIV-SD-0.0-0.5 SED -033-SIV-SD-0.0-0.5 SL -001-SA5C-SB-4.0-5.0 SL -001-SA5C-SB-9.0-10.0 SL -003-SA5C-SB-4.0-5.0 SL -006-SA5C-SB-4.0-5.0 SL -006-SA5C-SB-9.0-10.0 SL -007-SA5C-SB-4.0-5.0 SL -007-SA5C-SB-9.0-10.0 SL -075-SA5B-SS-0.0-0.5 SL -077-SA5B-SS-0.0-0.5 SL -085-SA5B-SS-0.0-0.5 SL -087-SA5B-SS-0.0-0.5 SL -091-SA5B-SS-0.0-0.5 SL -095-SA5B-SS-0.0-0.5)	PHOSPHORUS	54	-	75.00-125.00	-	PHOSPHORUS	J(all detects) UJ(all non-detects)

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-006-SA5C-SB-4.0-5.0MSD (SL-006-SA5C-SB-4.0-5.0)	2,4-DINITROPHENOL	-	-	20.00-143.00	35 (30.00)	2,4-DINITROPHENOL	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-006-SA5C-SB-4.0-5.0MSD (SL-006-SA5C-SB-4.0-5.0)	4-CHLOROPHENYL-PHENYLET BENZIDINE	- -	79 23	80.00-109.00 35.00-141.00	- 46 (30.00)	4-CHLOROPHENYL-PHENYLE BENZIDINE	J(all detects) UJ(all non-detects)

Method: 1625C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-006-SA5C-SB-4.0-5.0MSD (SL-006-SA5C-SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	-	66	70.00-130.00	-	N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-006-SA5C-SB-4.0-5.0DUP (DUP13-SA5C-QC-121310 SED -032-SIV-SD-0.0-0.5 SED -033-SIV-SD-0.0-0.5 SL -001-SA5C-SB-4.0-5.0 SL -001-SA5C-SB-9.0-10.0 SL -003-SA5C-SB-4.0-5.0 SL -006-SA5C-SB-4.0-5.0 SL -006-SA5C-SB-9.0-10.0 SL -007-SA5C-SB-4.0-5.0 SL -007-SA5C-SB-9.0-10.0 SL -075-SA5B-SS-0.0-0.5 SL -077-SA5B-SS-0.0-0.5 SL -085-SA5B-SS-0.0-0.5 SL -087-SA5B-SS-0.0-0.5 SL -091-SA5B-SS-0.0-0.5 SL -095-SA5B-SS-0.0-0.5)	ANTIMONY MOLYBDENUM SILVER	49 22 26	20.00 20.00 20.00	No Qual OK by difference

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-006-SA5C-SB-4.0-5.0DUP (DUP13-SA5C-QC-121310 SED -032-SIV-SD-0.0-0.5 SED -033-SIV-SD-0.0-0.5 SL -001-SA5C-SB-4.0-5.0 SL -001-SA5C-SB-9.0-10.0 SL -003-SA5C-SB-4.0-5.0 SL -006-SA5C-SB-4.0-5.0 SL -006-SA5C-SB-9.0-10.0 SL -007-SA5C-SB-4.0-5.0 SL -007-SA5C-SB-9.0-10.0 SL -075-SA5B-SS-0.0-0.5 SL -077-SA5B-SS-0.0-0.5 SL -085-SA5B-SS-0.0-0.5 SL -087-SA5B-SS-0.0-0.5 SL -091-SA5B-SS-0.0-0.5 SL -095-SA5B-SS-0.0-0.5)	HEXAVALENT CHROMIUM	32	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03506AY241102A (EB15-SA5B-121310)	4,4'-DDE	-	137	66.00-130.00	-	4,4'-DDE	J (all detects)

Method: 7199

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P34813AY271243A (EB15-SA5B-121310)	HEXAVALENT CHROMIUM	-	112	90.00-110.00	-	HEXAVALENT CHROMIUM	J(all detects)

Method: 8270C

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WBLCYSY262212 (EB15-SA5B-121310)	1,2-Diphenylhydrazine/Azobenz 2,4,5-TRICHLOROPHENOL 2,4-DICHLOROPHENOL 2,4-DIMETHYLPHENOL 2-CHLOROPHENOL 2-METHYLPHENOL DIBENZOFURAN	- - - - - - -	118 108 117 117 109 102 111	78.00-118.00 79.00-107.00 80.00-109.00 72.00-110.00 77.00-108.00 64.00-101.00 83.00-108.00	- - - - - - -	1,2-Diphenylhydrazine/Azobenz 2,4,5-TRICHLOROPHENOL 2,4-DICHLOROPHENOL 2,4-DIMETHYLPHENOL 2-CHLOROPHENOL 2-METHYLPHENOL DIBENZOFURAN	J(all detects)
P0WBLCYSY262212 (EB15-SA5B-121310)	BENZOIC ACID	-	-	10.00-69.00	44 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03516AQ240020A (SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	DINOSEB	8	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03556AQ240109A (SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	METHOXYCHLOR	131	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-032-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	135	20.00-120.00	All Target Analytes	J (all detects)

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-006-SA5C-SB-4.0-5.0	DECACHLOROBIPHENYL	126	45.00-120.00	All Target Analytes	J(all detects)
SL-091-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	190	45.00-120.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0- 5.0	DUP13-SA5C-QC- 121310			
MOISTURE	11.4	12.8	12		No Qualifiers Applied

Method: 1625C

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0- 5.0	DUP13-SA5C-QC- 121310			
N-NITROSODIMETHYLAMINE	37.6 U	129	200	50.00	J(all detects) UJ(all non-detects)

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0- 5.0	DUP13-SA5C-QC- 121310			
FLUORIDE	3.3	3.6	9	50.00	No Qualifiers Applied
Nitrate-NO3	13.0	16.8	26	50.00	

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0- 5.0	DUP13-SA5C-QC- 121310			
ALUMINUM	23700	26300	10	50.00	No Qualifiers Applied
BORON	7.11	5.54	25	50.00	
CALCIUM	7330	7160	2	50.00	
IRON	29600	33600	13	50.00	
LITHIUM	29.0	29.5	2	50.00	
MAGNESIUM	7030	7170	2	50.00	
MANGANESE	387	332	15	50.00	
PHOSPHORUS	419	397	5	50.00	
POTASSIUM	3630	3800	5	50.00	
SODIUM	198	189	5	50.00	
STRONTIUM	32.2	33.9	5	50.00	
TIN	2.29	2.94	25	50.00	
TITANIUM	1230	1560	24	50.00	
Zirconium	3.82	4.82	23	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
ANTIMONY	0.272	0.214	24	50.00	No Qualifiers Applied
ARSENIC	6.87	7.66	11	50.00	
BARIUM	128	123	4	50.00	
BERYLLIUM	0.957	0.962	1	50.00	
CADMIUM	0.108	0.102	6	50.00	
CHROMIUM	38.2	43.1	12	50.00	
COBALT	9.01	9.56	6	50.00	
COPPER	12.0	12.3	2	50.00	
LEAD	9.45	9.46	0	50.00	
MOLYBDENUM	0.517	0.419	21	50.00	
NICKEL	17.0	19.0	11	50.00	
SELENIUM	0.299	0.340	13	50.00	
SILVER	0.0341	0.0310	10	50.00	
THALLIUM	0.361	0.392	8	50.00	
VANADIUM	76.5	89.1	15	50.00	
ZINC	81.2	91.3	12	50.00	

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
HEXAVALENT CHROMIUM	0.26	0.28	7	50.00	No Qualifiers Applied

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
AROCLOR 1254	0.97	0.44	75	50.00	J(all detects)

Method: 8260B

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
METHYLENE CHLORIDE	0.63	0.97	42	50.00	No Qualifiers Applied

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	10	11	50.00	No Qualifiers Applied
CHRYSENE	0.46	1.9 U	200	50.00	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1

eQAPP Name: CDM_SSFL_110509

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0- 5.0	DUP13-SA5C-QC- 121310			
PH	8.16	8.05	1	50.00	No Qualifiers Applied

Method: ASTM D1498

Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0- 5.0	DUP13-SA5C-QC- 121310			
Oxidation Reduction Potential	399	400	0		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB15-SA5B-121310	LEAD	J	0.000099	0.0010	PQL	mg/L	J (all detects)

Method: 8260B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB15-SA5B-121310	ACETONE	J	7	20	PQL	ug/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB15-SA5B-121310	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.24	1.0	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.093	1.0	PQL	ug/L	
	Diethylphthalate	J	0.11	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.31	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.082	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.033	0.050	PQL	ug/L	
	PHENANTHRENE	J	0.018	0.050	PQL	ug/L	

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA5B-SS-0.0-0.5	N-NITROSODIMETHYLAMINE	J	108	179	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-033-SIV-SD-0.0-0.5	FLUORIDE	J	0.90	1.1	PQL	mg/Kg	J (all detects)
SL-001-SA5C-SB-4.0-5.0	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)
SL-007-SA5C-SB-9.0-10.0	Nitrate-NO3	J	1.2	1.7	PQL	mg/Kg	J (all detects)
SL-085-SA5B-SS-0.0-0.5	Nitrate-NO3	J	0.98	1.6	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	BORON	J	5.54	5.62	PQL	mg/Kg	J (all detects)
	TIN	J	2.94	11.2	PQL	mg/Kg	
	Zirconium	J	4.82	5.62	PQL	mg/Kg	
SED-032-SIV-SD-0.0-0.5	BORON	J	4.97	5.61	PQL	mg/Kg	J (all detects)
	SODIUM	J	78.8	112	PQL	mg/Kg	
	TIN	J	2.66	11.2	PQL	mg/Kg	
	Zirconium	J	1.22	5.61	PQL	mg/Kg	
SED-033-SIV-SD-0.0-0.5	BORON	J	3.23	5.10	PQL	mg/Kg	J (all detects)
	SODIUM	J	64.8	102	PQL	mg/Kg	
	TIN	J	1.86	10.2	PQL	mg/Kg	
SL-001-SA5C-SB-4.0-5.0	BORON	J	2.87	5.31	PQL	mg/Kg	J (all detects)
	SODIUM	J	105	106	PQL	mg/Kg	
	TIN	J	2.33	10.6	PQL	mg/Kg	
SL-001-SA5C-SB-9.0-10.0	TIN	J	2.80	11.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.76	5.96	PQL	mg/Kg	
SL-003-SA5C-SB-4.0-5.0	BORON	J	4.64	5.39	PQL	mg/Kg	J (all detects)
	TIN	J	2.50	10.8	PQL	mg/Kg	
	Zirconium	J	1.44	5.39	PQL	mg/Kg	
SL-006-SA5C-SB-4.0-5.0	TIN	J	2.29	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.82	5.43	PQL	mg/Kg	
SL-006-SA5C-SB-9.0-10.0	BORON	J	4.83	5.29	PQL	mg/Kg	J (all detects)
	TIN	J	2.43	10.6	PQL	mg/Kg	
	Zirconium	J	1.68	5.29	PQL	mg/Kg	
SL-007-SA5C-SB-4.0-5.0	BORON	J	4.96	5.33	PQL	mg/Kg	J (all detects)
	TIN	J	2.45	10.7	PQL	mg/Kg	
	Zirconium	J	1.20	5.33	PQL	mg/Kg	
SL-007-SA5C-SB-9.0-10.0	TIN	J	2.43	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.75	5.40	PQL	mg/Kg	
SL-075-SA5B-SS-0.0-0.5	BORON	J	3.61	5.27	PQL	mg/Kg	J (all detects)
	TIN	J	2.61	10.5	PQL	mg/Kg	
	Zirconium	J	2.25	5.27	PQL	mg/Kg	
SL-077-SA5B-SS-0.0-0.5	BORON	J	2.83	5.28	PQL	mg/Kg	J (all detects)
	SODIUM	J	90.4	106	PQL	mg/Kg	
	TIN	J	2.62	10.6	PQL	mg/Kg	
	Zirconium	J	1.35	5.28	PQL	mg/Kg	
SL-085-SA5B-SS-0.0-0.5	TIN	J	2.65	10.5	PQL	mg/Kg	J (all detects)
SL-087-SA5B-SS-0.0-0.5	BORON	J	5.31	5.36	PQL	mg/Kg	J (all detects)
	TIN	J	2.61	10.7	PQL	mg/Kg	
	Zirconium	J	3.44	5.36	PQL	mg/Kg	
SL-091-SA5B-SS-0.0-0.5	TIN	J	2.86	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.18	5.23	PQL	mg/Kg	
SL-095-SA5B-SS-0.0-0.5	BORON	J	4.36	5.21	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.88	5.21	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	ANTIMONY	J	0.214	0.227	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.102	0.114	PQL	mg/Kg	
	SELENIUM	J	0.340	0.454	PQL	mg/Kg	
	SILVER	J	0.0310	0.114	PQL	mg/Kg	
SED-032-SIV-SD-0.0-0.5	ANTIMONY	J	0.192	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.168	0.449	PQL	mg/Kg	
SED-033-SIV-SD-0.0-0.5	SELENIUM	J	0.209	0.416	PQL	mg/Kg	J (all detects)
SL-001-SA5C-SB-4.0-5.0	ANTIMONY	J	0.0994	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0626	0.106	PQL	mg/Kg	
	SELENIUM	J	0.153	0.424	PQL	mg/Kg	
	SILVER	J	0.0190	0.106	PQL	mg/Kg	
SL-001-SA5C-SB-9.0-10.0	SELENIUM	J	0.190	0.482	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0765	0.120	PQL	mg/Kg	
SL-003-SA5C-SB-4.0-5.0	ANTIMONY	J	0.174	0.207	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0875	0.104	PQL	mg/Kg	
	SELENIUM	J	0.177	0.414	PQL	mg/Kg	
	SILVER	J	0.0366	0.104	PQL	mg/Kg	
SL-006-SA5C-SB-4.0-5.0	CADMIUM	J	0.108	0.112	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.299	0.447	PQL	mg/Kg	
	SILVER	J	0.0341	0.112	PQL	mg/Kg	
SL-006-SA5C-SB-9.0-10.0	SELENIUM	J	0.241	0.431	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0704	0.108	PQL	mg/Kg	
SL-007-SA5C-SB-4.0-5.0	ANTIMONY	J	0.156	0.215	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0887	0.108	PQL	mg/Kg	
	SELENIUM	J	0.141	0.431	PQL	mg/Kg	
	SILVER	J	0.0301	0.108	PQL	mg/Kg	
SL-007-SA5C-SB-9.0-10.0	ANTIMONY	J	0.132	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.185	0.428	PQL	mg/Kg	
	SILVER	J	0.0588	0.107	PQL	mg/Kg	
SL-075-SA5B-SS-0.0-0.5	ANTIMONY	J	0.193	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.199	0.418	PQL	mg/Kg	
SL-077-SA5B-SS-0.0-0.5	SELENIUM	J	0.0944	0.422	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0576	0.106	PQL	mg/Kg	
SL-085-SA5B-SS-0.0-0.5	SELENIUM	J	0.237	0.412	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0715	0.103	PQL	mg/Kg	
SL-087-SA5B-SS-0.0-0.5	SELENIUM	J	0.136	0.424	PQL	mg/Kg	J (all detects)
SL-091-SA5B-SS-0.0-0.5	SELENIUM	J	0.334	0.423	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0585	0.106	PQL	mg/Kg	
SL-095-SA5B-SS-0.0-0.5	SELENIUM	J	0.159	0.405	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0526	0.101	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	HEXAVALENT CHROMIUM	J	0.28	1.1	PQL	mg/Kg	J (all detects)
SL-001-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.79	1.1	PQL	mg/Kg	J (all detects)
SL-001-SA5C-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.37	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.82	1.1	PQL	mg/Kg	J (all detects)
SL-006-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-006-SA5C-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-075-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.46	1.1	PQL	mg/Kg	J (all detects)
SL-085-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.66	1.1	PQL	mg/Kg	J (all detects)
SL-087-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-091-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/Kg	J (all detects)
SL-095-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.52	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-032-SIV-SD-0.0-0.5	MERCURY	J	0.0148	0.111	PQL	mg/Kg	J (all detects)
SL-001-SA5C-SB-9.0-10.0	MERCURY	J	0.0073	0.116	PQL	mg/Kg	J (all detects)
SL-003-SA5C-SB-4.0-5.0	MERCURY	J	0.0131	0.105	PQL	mg/Kg	J (all detects)
SL-007-SA5C-SB-9.0-10.0	MERCURY	J	0.0043	0.108	PQL	mg/Kg	J (all detects)
SL-077-SA5B-SS-0.0-0.5	MERCURY	J	0.0036	0.102	PQL	mg/Kg	J (all detects)
SL-087-SA5B-SS-0.0-0.5	MERCURY	J	0.0304	0.107	PQL	mg/Kg	J (all detects)
SL-091-SA5B-SS-0.0-0.5	MERCURY	J	0.0218	0.105	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA5C-SB-4.0-5.0	METHANOL	J	110	540	PQL	ug/Kg	J (all detects)
SL-007-SA5C-SB-9.0-10.0	METHANOL	J	140	550	PQL	ug/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-033-SIV-SD-0.0-0.5	ALPHA-BHC	J	0.16	0.18	PQL	ug/Kg	J (all detects)
SL-095-SA5B-SS-0.0-0.5	DELTA-BHC	J	0.12	0.17	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	AROCLOR 1254	J	0.44	1.9	PQL	ug/Kg	J (all detects)
SED-033-SIV-SD-0.0-0.5	AROCLOR 1254	J	1.7	3.6	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	2.1	3.6	PQL	ug/Kg	
SL-003-SA5C-SB-4.0-5.0	AROCLOR 1254	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.61	1.8	PQL	ug/Kg	
SL-006-SA5C-SB-4.0-5.0	AROCLOR 1254	J	0.97	1.9	PQL	ug/Kg	J (all detects)
SL-007-SA5C-SB-4.0-5.0	AROCLOR 1260	J	0.71	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.9	3.6	PQL	ug/Kg	
SL-007-SA5C-SB-9.0-10.0	AROCLOR 1248	J	1.4	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1254	J	1.1	1.9	PQL	ug/Kg	
	AROCLOR 1260	J	0.88	1.9	PQL	ug/Kg	
SL-075-SA5B-SS-0.0-0.5	Aroclor 5460	J	2.9	3.5	PQL	ug/Kg	J (all detects)
SL-077-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.3	3.6	PQL	ug/Kg	
SL-085-SA5B-SS-0.0-0.5	Aroclor 5460	J	9.7	18	PQL	ug/Kg	J (all detects)
SL-087-SA5B-SS-0.0-0.5	Aroclor 5460	J	5.1	7.2	PQL	ug/Kg	J (all detects)
SL-091-SA5B-SS-0.0-0.5	Aroclor 5460	J	2.8	7.2	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-075-SA5B-SS-0.0-0.5	DICAMBA	J	0.94	1.3	PQL	ug/Kg	J (all detects)
SL-085-SA5B-SS-0.0-0.5	2,4-DB	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	MCPA	J	200	270	PQL	ug/Kg	
	MCPD	J	130	270	PQL	ug/Kg	
SL-087-SA5B-SS-0.0-0.5	DICAMBA	J	0.54	1.3	PQL	ug/Kg	J (all detects)
SL-095-SA5B-SS-0.0-0.5	DICAMBA	J	0.55	1.3	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	METHYLENE CHLORIDE	J	0.97	5.1	PQL	ug/Kg	J (all detects)
SL-001-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	3.0	4.1	PQL	ug/Kg	J (all detects)
SL-001-SA5C-SB-9.0-10.0	2-BUTANONE (MEK)	J	5.6	8.2	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.5	4.1	PQL	ug/Kg	
	TOLUENE	J	0.11	4.1	PQL	ug/Kg	
SL-003-SA5C-SB-4.0-5.0	CHLOROFORM	J	0.13	4.0	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	2.4	4.0	PQL	ug/Kg	
SL-006-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.63	4.3	PQL	ug/Kg	J (all detects)
SL-006-SA5C-SB-9.0-10.0	ACETONE	J	8.7	8.8	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.1	4.4	PQL	ug/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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ADR version 1.3.0.71

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Reporting Limit Outliers

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5C-SB-4.0-5.0	CHLOROFORM	J	0.14	4.0	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	2.5	4.0	PQL	ug/Kg	
SL-007-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	1.4	4.4	PQL	ug/Kg	J (all detects)
SL-085-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	1.5	5.5	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-032-SIV-SD-0.0-0.5	ACENAPHTHENE	J	43	190	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	37	190	PQL	ug/Kg	
	CARBAZOLE	J	24	190	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	120	190	PQL	ug/Kg	
	PHENANTHRENE	J	110	190	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	J (all detects)
SED-032-SIV-SD-0.0-0.5	ACENAPHTHYLENE	J	0.49	1.9	PQL	ug/Kg	J (all detects)
SED-033-SIV-SD-0.0-0.5	1-METHYLNAPHTHALENE	J	0.94	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.96	1.8	PQL	ug/Kg	
	ANTHRACENE	J	0.99	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	17	19	PQL	ug/Kg	
	NAPHTHALENE	J	1.1	1.8	PQL	ug/Kg	
SL-003-SA5C-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.90	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.76	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
SL-006-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	20	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.46	1.9	PQL	ug/Kg	
SL-007-SA5C-SB-9.0-10.0	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.5	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	12	20	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.98	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
SL-075-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.49	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	19	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.78	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.2	19	PQL	ug/Kg	
SL-077-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE037

Laboratory: LL

EDD Filename: DE037_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	14	19	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.0	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.99	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.8	PQL	ug/Kg	
SL-087-SA5B-SS-0.0-0.5	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	14	20	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.91	1.8	PQL	ug/Kg	
SL-091-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.5	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.74	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
SL-095-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	16	19	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	1.4	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.2	1.8	PQL	ug/Kg	

Method: 8315A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5C-SB-9.0-10.0	FORMALDEHYDE	J	990	1600	PQL	ug/Kg	J (all detects)

LDC #: 2533714

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE037

ADR

Laboratory: Lancaster Laboratories

Date: 5/5/11

Page: 1 of 1

Reviewer: CR

2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	ICB/CCB hits - No Qual
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn > 4x)
VII.	Duplicate Sample Analysis	N	Dup (Sb, Mo, Ag < 5x RL)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba-16%, Pb-12%, Zn-11% J/JT
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	SW	EB=4

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-006-SA5C-SB-9.0-10.0	11	SL-095-SA5B-SS-0.0-0.5	21		31	
2	DUP13-SA5C-QC-121310	12	SL-091-SA5B-SS-0.0-0.5	22		32	
3	SL-006-SA5C-SB-4.0-5.0	13	SL-003-SA5B-SS-4.0-5.0	23		33	
4	EB-15-SA5B-121310 W	14	SL-001-SA5B-SS-4.0-5.0	24		34	
5	SL-007-SA5C-SB-4.0-5.0	15	SL-001-SA5B-SS-9.0-10.0	25		35	
6	SL-007-SA5C-SB-9.0-10.0	16	SED-032-SIV-SD-0.0-0.5	26		36	
7	SL-075-SA5B-SS-0.0-0.5	17	SED-033-SIV-SD-0.0-0.5	27		37	
8	SL-077-SA5B-SS-0.0-0.5	18	SL-006-SA5C-SB-4.0-5.0MS	28		38	
9	SL-085-SA5B-SS-0.0-0.5	19	SL-006-SA5C-SB-4.0-5.0MSD	29		39	
10	SL-087-SA5B-SS-0.0-0.5	20	SL-006-SA5C-SB-4.0-5.0DUP	30		40	

Notes: _____

Field blank type: (circle one) Field blank / Killgate / Other: _____ Association Camp: _____

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

SAMPLE DELIVERY GROUP

DE038

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	3050B	6010B	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	3050B	6020	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	3060A	7199	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	3550B	8081A	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	3550B	8082	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	3550B	8151A	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	3550B	8270C	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	3550B	8270C SIM	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	Gen Prep	9045M	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	METHOD	300.0	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	METHOD	314.0	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	METHOD	7471A	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	3050B	6010B	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	3050B	6020	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	3060A	7199	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	3550B	8081A	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	3550B	8082	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	3550B	8151A	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	3550B	8270C	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	3550B	8270C SIM	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	Gen Prep	9045M	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	METHOD	300.0	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	METHOD	314.0	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	METHOD	7471A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	3050B	6010B	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	3060A	7199	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	3550B	8081A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	3550B	8082	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	3550B	8151A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	3550B	8270C	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	3550B	8270C SIM	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	Gen Prep	9045M	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	METHOD	300.0	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	METHOD	314.0	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	METHOD	7471A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	3050B	6010B	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	3050B	6020	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	3060A	7199	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	3550B	8081A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	3550B	8082	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	3550B	8151A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	3550B	8270C	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	3550B	8270C SIM	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	METHOD	300.0	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	METHOD	314.0	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	METHOD	7471A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164624	MSD	3050B	6010B	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164624	MSD	3050B	6020	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164624	MSD	3550B	8081A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164624	MSD	3550B	8082	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164624	MSD	3550B	8151A	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164624	MSD	3550B	8270C	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164624	MSD	3550B	8270C SIM	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164624	MSD	METHOD	7471A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5DUP	6164625	DUP	3050B	6010B	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5DUP	6164625	DUP	3050B	6020	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5DUP	6164625	DUP	3060A	7199	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5DUP	6164625	DUP	Gen Prep	9045M	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5DUP	6164625	DUP	METHOD	300.0	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5DUP	6164625	DUP	METHOD	314.0	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5DUP	6164625	DUP	METHOD	7471A	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	3050B	6010B	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	3050B	6020	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	3060A	7199	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	3550B	8081A	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	3550B	8082	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	3550B	8151A	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	3550B	8270C	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	3550B	8270C SIM	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	Gen Prep	9045M	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	METHOD	300.0	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	METHOD	314.0	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	METHOD	7471A	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	3050B	6010B	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	3050B	6020	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	3060A	7199	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	3550B	8081A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	3550B	8082	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	3550B	8151A	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	3550B	8270C	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	3550B	8270C SIM	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	Gen Prep	9045M	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	METHOD	300.0	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	METHOD	314.0	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	METHOD	7471A	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	3050B	6010B	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	3050B	6020	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	3060A	7199	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	3550B	8081A	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	3550B	8082	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	3550B	8151A	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	3550B	8270C	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	3550B	8270C SIM	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	Gen Prep	9045M	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	METHOD	300.0	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	METHOD	314.0	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	METHOD	7471A	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	3050B	6010B	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	3050B	6020	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	3060A	7199	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	3550B	8081A	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	3550B	8082	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	3550B	8151A	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	3550B	8270C	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	3550B	8270C SIM	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	Gen Prep	9045M	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	METHOD	300.0	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	METHOD	314.0	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	METHOD	7471A	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	3050B	6010B	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	3050B	6020	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	3060A	7199	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	3550B	8081A	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	3550B	8082	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	3550B	8151A	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	3550B	8270C	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	3550B	8270C SIM	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	Gen Prep	9045M	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	METHOD	300.0	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	METHOD	314.0	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	METHOD	7471A	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	3050B	6010B	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	3050B	6020	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	3060A	7199	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	3550B	8081A	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	3550B	8082	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	3550B	8151A	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	3550B	8270C	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	Gen Prep	9045M	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	METHOD	300.0	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	METHOD	314.0	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	METHOD	7471A	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5DUP	P164628D291300A	DUP	Gen Prep	9045M	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	3050B	6010B	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	3050B	6020	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	3060A	7199	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	3550B	8081A	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	3550B	8082	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	3550B	8151A	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	3550B	8270C	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	3550B	8270C SIM	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	Gen Prep	9045M	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	METHOD	300.0	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	METHOD	314.0	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	METHOD	7471A	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	3050B	6010B	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	3050B	6020	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	3060A	7199	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	3550B	8081A	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	3550B	8082	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	3550B	8151A	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	3550B	8270C	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	3550B	8270C SIM	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	Gen Prep	9045M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	METHOD	300.0	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	METHOD	314.0	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	METHOD	7471A	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	3050B	6010B	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	3050B	6020	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	3060A	7199	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	3550B	8081A	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	3550B	8082	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	3550B	8151A	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	3550B	8270C	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	3550B	8270C SIM	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	Gen Prep	9045M	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	METHOD	300.0	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	METHOD	314.0	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	METHOD	6850	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	METHOD	7471A	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5DUP	P164634D270645B	DUP	METHOD	300.0	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5DUP	P164634D271907B	DUP	METHOD	314.0	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5MS	P164634R270659B	MS	METHOD	300.0	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5MS	P164634R271955B	MS	METHOD	314.0	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	3050B	6010B	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	3050B	6020	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	3060A	7199	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	3550B	8081A	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	3550B	8082	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	3550B	8151A	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	3550B	8270C	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	3550B	8270C SIM	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	Gen Prep	9045M	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	METHOD	300.0	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	METHOD	314.0	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	METHOD	7471A	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	3050B	6010B	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	3050B	6020	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	3060A	7199	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	3550B	8081A	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	3550B	8082	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	3550B	8151A	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	3550B	8270C	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	3550B	8270C SIM	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	Gen Prep	9045M	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	METHOD	300.0	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	METHOD	314.0	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	METHOD	7471A	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	3050B	6010B	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	3050B	6020	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	3060A	7199	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	3550B	8081A	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	3550B	8082	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	3550B	8151A	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	3550B	8270C	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	Gen Prep	9045M	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	METHOD	300.0	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	METHOD	314.0	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	METHOD	7471A	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	3050B	6010B	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	3050B	6020	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	3060A	7199	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	3550B	8081A	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	3550B	8082	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	3550B	8151A	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	3550B	8270C	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	3550B	8270C SIM	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	Gen Prep	9045M	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	METHOD	300.0	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	METHOD	314.0	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	METHOD	7471A	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	3050B	6010B	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	3050B	6020	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	3060A	7199	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	3550B	8081A	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	3550B	8082	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	3550B	8151A	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	3550B	8270C	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	3550B	8270C SIM	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	Gen Prep	9045M	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	METHOD	314.0	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	METHOD	7471A	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	3050B	6010B	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	3050B	6020	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	3060A	7199	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	3550B	8081A	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	3550B	8082	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	3550B	8151A	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	3550B	8270C	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	3550B	8270C SIM	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	Gen Prep	9045M	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	METHOD	300.0	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	METHOD	314.0	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	METHOD	7471A	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	3050B	6010B	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	3050B	6020	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	3060A	7199	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	3550B	8081A	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	3550B	8082	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	3550B	8151A	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	3550B	8270C	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	3550B	8270C SIM	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	Gen Prep	9045M	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	METHOD	300.0	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	METHOD	314.0	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	3050B	6010B	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	3050B	6020	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	3060A	7199	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	3550B	8081A	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	3550B	8082	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	3550B	8151A	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	3550B	8270C	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	3550B	8270C SIM	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	Gen Prep	9045M	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	METHOD	300.0	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	METHOD	314.0	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: DUP05-SA5B-QC-121410

Collected: 12/14/2010 8:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.0	J	0.83	MDL	1.0	PQL	mg/Kg	J	FD

Sample ID: SL-120-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.83	U	0.83	MDL	1.0	PQL	mg/Kg	UJ	FD

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: DUP05-SA5B-QC-121410

Collected: 12/14/2010 8:50:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1870		6.16	MDL	20.1	PQL	mg/Kg	J	E
LITHIUM	4.4		0.22	MDL	2.0	PQL	mg/Kg	J	FD
MAGNESIUM	1170		2.55	MDL	10.1	PQL	mg/Kg	J	E
POTASSIUM	955		18.1	MDL	50.3	PQL	mg/Kg	J	E
SODIUM	37.5	U	37.5	MDL	101	PQL	mg/Kg	UJ	FD
Zirconium	1.19	J	0.844	MDL	5.03	PQL	mg/Kg	J	Z, FD

Sample ID: DUP05-SA5B-QC-121410

Collected: 12/14/2010 8:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	94.0		0.0784	MDL	0.503	PQL	mg/Kg	J	Q
TIN	1.69	J	1.01	MDL	10.1	PQL	mg/Kg	U	B, B
TITANIUM	248		0.382	MDL	1.01	PQL	mg/Kg	J	Q, E

Sample ID: SED-025-SIV-SD-0.0-0.5

Collected: 12/14/2010 12:44:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3940		6.64	MDL	21.7	PQL	mg/Kg	J	E
MAGNESIUM	5230		2.75	MDL	10.8	PQL	mg/Kg	J	E
POTASSIUM	3320		19.5	MDL	54.2	PQL	mg/Kg	J	E
SODIUM	67.1	J	40.4	MDL	108	PQL	mg/Kg	J	Z
Zirconium	1.29	J	0.910	MDL	5.42	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SED-025-SIV-SD-0.0-0.5

Collected: 12/14/2010 12:44:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	311		0.0845	MDL	0.542	PQL	mg/Kg	J	Q
TIN	2.54	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
TITANIUM	1250		0.412	MDL	1.08	PQL	mg/Kg	J	Q, E

Sample ID: SL-054-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:21:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.62	J	0.869	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-054-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:21:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	7360		6.34	MDL	20.7	PQL	mg/Kg	J	E
MAGNESIUM	4710		2.63	MDL	10.4	PQL	mg/Kg	J	E

Sample ID: SL-054-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:21:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3230		18.6	MDL	51.8	PQL	mg/Kg	J	E

Sample ID: SL-054-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:21:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	303		0.0807	MDL	0.518	PQL	mg/Kg	J	Q
TIN	2.78	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
TITANIUM	1310		0.393	MDL	1.04	PQL	mg/Kg	J	Q, E

Sample ID: SL-098-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:43:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.40	J	0.859	MDL	5.11	PQL	mg/Kg	J	Z

Sample ID: SL-098-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:43:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	7920		6.27	MDL	20.5	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-098-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:43:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MAGNESIUM	5590		2.60	MDL	10.2	PQL	mg/Kg	J	E

Sample ID: SL-098-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:43:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4600		18.4	MDL	51.1	PQL	mg/Kg	J	E

Sample ID: SL-098-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:43:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	312		0.0798	MDL	0.511	PQL	mg/Kg	J	Q
TIN	2.25	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
TITANIUM	1590		0.389	MDL	1.02	PQL	mg/Kg	J	Q, E

Sample ID: SL-105-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:35:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6520		6.34	MDL	20.7	PQL	mg/Kg	J	E
MAGNESIUM	5240		2.63	MDL	10.3	PQL	mg/Kg	J	E

Sample ID: SL-105-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:35:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3870		18.6	MDL	51.7	PQL	mg/Kg	J	E

Sample ID: SL-105-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	343		0.0806	MDL	0.517	PQL	mg/Kg	J	Q
TIN	2.60	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
TITANIUM	1340		0.393	MDL	1.03	PQL	mg/Kg	J	Q, E

Sample ID: SL-108-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:55:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5160		6.29	MDL	20.5	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-108-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:55:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MAGNESIUM	5140		2.60	MDL	10.3	PQL	mg/Kg	J	E

Sample ID: SL-108-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:55:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3890		18.5	MDL	51.3	PQL	mg/Kg	J	E

Sample ID: SL-108-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	358		0.0800	MDL	0.513	PQL	mg/Kg	J	Q
TIN	2.61	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
TITANIUM	1500		0.390	MDL	1.03	PQL	mg/Kg	J	Q, E

Sample ID: SL-109-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:09:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.54	J	0.857	MDL	5.10	PQL	mg/Kg	J	Z

Sample ID: SL-109-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:09:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4040		6.26	MDL	20.4	PQL	mg/Kg	J	E
MAGNESIUM	4670		2.59	MDL	10.2	PQL	mg/Kg	J	E

Sample ID: SL-109-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:09:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3240		18.4	MDL	51.0	PQL	mg/Kg	J	E

Sample ID: SL-109-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	307		0.0796	MDL	0.510	PQL	mg/Kg	J	Q
TIN	2.66	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
TITANIUM	1400		0.388	MDL	1.02	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-119-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:30:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.08	J	0.883	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:30:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3230		6.44	MDL	21.0	PQL	mg/Kg	J	E
MAGNESIUM	5420		2.67	MDL	10.5	PQL	mg/Kg	J	E

Sample ID: SL-119-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:30:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4930		18.9	MDL	52.5	PQL	mg/Kg	J	E
SODIUM	98.1	J	39.2	MDL	105	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	427		0.0820	MDL	0.525	PQL	mg/Kg	J	Q
TIN	3.09	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
TITANIUM	1640		0.399	MDL	1.05	PQL	mg/Kg	J	Q, E

Sample ID: SL-120-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:47:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2070		6.33	MDL	20.6	PQL	mg/Kg	J	E
LITHIUM	7.6		0.23	MDL	2.1	PQL	mg/Kg	J	FD
MAGNESIUM	1850		2.62	MDL	10.3	PQL	mg/Kg	J	E
POTASSIUM	1440		18.6	MDL	51.6	PQL	mg/Kg	J	E
SODIUM	49.7	J	38.5	MDL	103	PQL	mg/Kg	J	Z, FD
Zirconium	2.17	J	0.867	MDL	5.16	PQL	mg/Kg	J	Z, FD

Sample ID: SL-120-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	131		0.0805	MDL	0.516	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-120-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.16	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
TITANIUM	404		0.392	MDL	1.03	PQL	mg/Kg	J	Q, E

Sample ID: SL-121-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:15:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.93	J	0.873	MDL	5.20	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:15:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3820		6.37	MDL	20.8	PQL	mg/Kg	J	E
MAGNESIUM	4540		2.64	MDL	10.4	PQL	mg/Kg	J	E

Sample ID: SL-121-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:15:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3780		18.7	MDL	52.0	PQL	mg/Kg	J	E
SODIUM	86.8	J	38.8	MDL	104	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	341		0.0811	MDL	0.520	PQL	mg/Kg	J	Q
TIN	2.53	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
TITANIUM	1280		0.395	MDL	1.04	PQL	mg/Kg	J	Q, E

Sample ID: SL-122-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:40:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.81	J	0.880	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:40:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2290		6.42	MDL	21.0	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-122-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:40:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MAGNESIUM	3150		2.66	MDL	10.5	PQL	mg/Kg	J	E

Sample ID: SL-122-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:40:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3020		18.9	MDL	52.4	PQL	mg/Kg	J	E
SODIUM	70.0	J	39.1	MDL	105	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	233		0.0817	MDL	0.524	PQL	mg/Kg	J	Q
TIN	2.31	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
TITANIUM	902		0.398	MDL	1.05	PQL	mg/Kg	J	Q, E

Sample ID: SL-123-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:40:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.69	J	0.860	MDL	5.12	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:40:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2760		6.28	MDL	20.5	PQL	mg/Kg	J	E
MAGNESIUM	4130		2.60	MDL	10.2	PQL	mg/Kg	J	E

Sample ID: SL-123-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:40:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2780		18.4	MDL	51.2	PQL	mg/Kg	J	E
SODIUM	75.6	J	38.2	MDL	102	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	275		0.0799	MDL	0.512	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-123-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.76	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
TITANIUM	1130		0.389	MDL	1.02	PQL	mg/Kg	J	Q, E

Sample ID: SL-124-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:00:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.30	J	0.860	MDL	5.12	PQL	mg/Kg	J	Z

Sample ID: SL-124-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:00:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3280		6.28	MDL	20.5	PQL	mg/Kg	J	E
MAGNESIUM	5200		2.60	MDL	10.2	PQL	mg/Kg	J	E

Sample ID: SL-124-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:00:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4950		18.4	MDL	51.2	PQL	mg/Kg	J	E
SODIUM	83.6	J	38.2	MDL	102	PQL	mg/Kg	J	Z

Sample ID: SL-124-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	375		0.0799	MDL	0.512	PQL	mg/Kg	J	Q
TIN	3.05	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
TITANIUM	1470		0.389	MDL	1.02	PQL	mg/Kg	J	Q, E

Sample ID: SL-142-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:04:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.88	J	0.878	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:04:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3390		6.41	MDL	20.9	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-142-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:04:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MAGNESIUM	5400		2.65	MDL	10.5	PQL	mg/Kg	J	E

Sample ID: SL-142-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:04:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2650		18.8	MDL	52.3	PQL	mg/Kg	J	E
SODIUM	77.6	J	39.0	MDL	105	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	339		0.0815	MDL	0.523	PQL	mg/Kg	J	Q
TIN	3.07	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
TITANIUM	1380		0.397	MDL	1.05	PQL	mg/Kg	J	Q, E

Sample ID: SL-143-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:15:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.72	J	0.864	MDL	5.14	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:15:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2770		6.30	MDL	20.6	PQL	mg/Kg	J	E
MAGNESIUM	4560		2.61	MDL	10.3	PQL	mg/Kg	J	E

Sample ID: SL-143-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:15:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3870		18.5	MDL	51.4	PQL	mg/Kg	J	E
SODIUM	70.1	J	38.3	MDL	103	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	306		0.0802	MDL	0.514	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-143-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.62	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
TITANIUM	1270		0.391	MDL	1.03	PQL	mg/Kg	J	Q, E

Sample ID: SL-240-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:33:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.11	J	0.841	MDL	5.01	PQL	mg/Kg	J	Z

Sample ID: SL-240-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:33:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6410		6.14	MDL	20.0	PQL	mg/Kg	J	E
MAGNESIUM	5000		2.54	MDL	10.0	PQL	mg/Kg	J	E

Sample ID: SL-240-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:33:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3480		18.0	MDL	50.1	PQL	mg/Kg	J	E

Sample ID: SL-240-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:33:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	315		0.0781	MDL	0.501	PQL	mg/Kg	J	Q
TIN	2.62	J	1.00	MDL	10.0	PQL	mg/Kg	U	B
TITANIUM	1450		0.381	MDL	1.00	PQL	mg/Kg	J	Q, E

Sample ID: SL-309-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:25:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.25	J	0.866	MDL	5.16	PQL	mg/Kg	J	Z

Sample ID: SL-309-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:25:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3950		6.32	MDL	20.6	PQL	mg/Kg	J	E
MAGNESIUM	4380		2.62	MDL	10.3	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-309-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:25:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2790		18.6	MDL	51.6	PQL	mg/Kg	J	E

Sample ID: SL-309-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	254		0.0804	MDL	0.516	PQL	mg/Kg	J	Q
TIN	2.40	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
TITANIUM	1160		0.392	MDL	1.03	PQL	mg/Kg	J	Q, E

Sample ID: SL-310-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.64	J	0.869	MDL	5.17	PQL	mg/Kg	J	Z

Sample ID: SL-310-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3890		6.34	MDL	20.7	PQL	mg/Kg	J	E
MAGNESIUM	4640		2.63	MDL	10.3	PQL	mg/Kg	J	E

Sample ID: SL-310-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2900		18.6	MDL	51.7	PQL	mg/Kg	J	E

Sample ID: SL-310-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	273		0.0807	MDL	0.517	PQL	mg/Kg	J	Q
TIN	2.35	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
TITANIUM	1160		0.393	MDL	1.03	PQL	mg/Kg	J	Q, E

Sample ID: SL-311-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.31	J	0.901	MDL	5.36	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-311-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6910		6.58	MDL	21.5	PQL	mg/Kg	J	E
MAGNESIUM	3850		2.72	MDL	10.7	PQL	mg/Kg	J	E
POTASSIUM	2510		19.3	MDL	53.6	PQL	mg/Kg	J	E

Sample ID: SL-311-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	320		0.0837	MDL	0.536	PQL	mg/Kg	J	Q
TIN	1.88	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
TITANIUM	997		0.408	MDL	1.07	PQL	mg/Kg	J	Q, E

Sample ID: SL-312-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:27:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.60	J	0.875	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-312-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:27:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4280		6.39	MDL	20.8	PQL	mg/Kg	J	E
MAGNESIUM	4330		2.65	MDL	10.4	PQL	mg/Kg	J	E

Sample ID: SL-312-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:27:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2880		18.8	MDL	52.1	PQL	mg/Kg	J	E

Sample ID: SL-312-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	261		0.0813	MDL	0.521	PQL	mg/Kg	J	Q
TIN	2.69	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
TITANIUM	1110		0.396	MDL	1.04	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP05-SA5B-QC-121410

Collected: 12/14/2010 8:50:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.157	J	0.0414	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: DUP05-SA5B-QC-121410

Collected: 12/14/2010 8:50:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	56.9		0.112	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: DUP05-SA5B-QC-121410

Collected: 12/14/2010 8:50:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.169	J	0.0621	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	4.38		0.0621	MDL	0.414	PQL	mg/Kg	J	Q
COBALT	4.40		0.0207	MDL	0.104	PQL	mg/Kg	J	A
SILVER	0.0124	U	0.0124	MDL	0.104	PQL	mg/Kg	UJ	FD
THALLIUM	0.0943	J	0.0311	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	20.2		0.0228	MDL	0.104	PQL	mg/Kg	J	Q, A

Sample ID: SED-025-SIV-SD-0.0-0.5

Collected: 12/14/2010 12:44:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.160	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SED-025-SIV-SD-0.0-0.5

Collected: 12/14/2010 12:44:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	118		0.118	MDL	0.438	PQL	mg/Kg	J	A

Sample ID: SED-025-SIV-SD-0.0-0.5

Collected: 12/14/2010 12:44:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.136	J	0.0657	MDL	0.219	PQL	mg/Kg	J	Z, Q
ARSENIC	4.21		0.0657	MDL	0.438	PQL	mg/Kg	J	Q
COBALT	6.33		0.0219	MDL	0.109	PQL	mg/Kg	J	A
SILVER	0.0400	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	47.0		0.0241	MDL	0.109	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-054-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:21:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.104	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-054-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:21:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	131		0.114	MDL	0.422	PQL	mg/Kg	J	A

Sample ID: SL-054-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:21:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.225		0.0633	MDL	0.211	PQL	mg/Kg	J	Q
ARSENIC	5.00		0.0633	MDL	0.422	PQL	mg/Kg	J	Q
COBALT	5.80		0.0211	MDL	0.106	PQL	mg/Kg	J	A
SILVER	0.0379	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	42.7		0.0232	MDL	0.106	PQL	mg/Kg	J	Q, A

Sample ID: SL-098-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:43:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0689	J	0.0405	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SL-098-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:43:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	127		0.109	MDL	0.405	PQL	mg/Kg	J	A

Sample ID: SL-098-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:43:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.126	J	0.0608	MDL	0.203	PQL	mg/Kg	J	Z, Q
ARSENIC	3.81		0.0608	MDL	0.405	PQL	mg/Kg	J	Q
COBALT	7.01		0.0203	MDL	0.101	PQL	mg/Kg	J	A
SILVER	0.0257	J	0.0122	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	45.6		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-105-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:35:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0577	J	0.0409	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:35:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	140		0.111	MDL	0.409	PQL	mg/Kg	J	A

Sample ID: SL-105-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.144	J	0.0614	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	4.15		0.0614	MDL	0.409	PQL	mg/Kg	J	Q
COBALT	6.24		0.0205	MDL	0.102	PQL	mg/Kg	J	A
SILVER	0.0340	J	0.0123	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	43.3		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, A

Sample ID: SL-108-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:55:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0656	J	0.0414	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-108-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:55:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	133		0.112	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: SL-108-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:55:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.149	J	0.0621	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	4.46		0.0621	MDL	0.414	PQL	mg/Kg	J	Q
COBALT	6.76		0.0207	MDL	0.104	PQL	mg/Kg	J	A
SILVER	0.0221	J	0.0124	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	44.0		0.0228	MDL	0.104	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-109-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:09:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0757	J	0.0412	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-109-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:09:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.111	MDL	0.412	PQL	mg/Kg	J	A

Sample ID: SL-109-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:09:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.127	J	0.0618	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	5.97		0.0618	MDL	0.412	PQL	mg/Kg	J	Q
COBALT	5.79		0.0206	MDL	0.103	PQL	mg/Kg	J	A
SILVER	0.0289	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	43.7		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, A

Sample ID: SL-119-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:30:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.161	J	0.0429	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:30:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	170		0.116	MDL	0.429	PQL	mg/Kg	J	A

Sample ID: SL-119-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:30:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.222		0.0643	MDL	0.214	PQL	mg/Kg	J	Q
ARSENIC	6.66		0.0643	MDL	0.429	PQL	mg/Kg	J	Q
COBALT	7.67		0.0214	MDL	0.107	PQL	mg/Kg	J	A
SILVER	0.0445	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	46.8		0.0236	MDL	0.107	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-120-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:47:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.146	J	0.0413	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:47:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	48.1		0.112	MDL	0.413	PQL	mg/Kg	J	A

Sample ID: SL-120-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:47:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.155	J	0.0619	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	3.17		0.0619	MDL	0.413	PQL	mg/Kg	J	Q
COBALT	3.77		0.0206	MDL	0.103	PQL	mg/Kg	J	A
SILVER	0.0154	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z, FD
THALLIUM	0.101	J	0.0310	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	17.5		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, A

Sample ID: SL-121-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:15:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.158	J	0.0416	MDL	0.416	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:15:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	124		0.112	MDL	0.416	PQL	mg/Kg	J	A

Sample ID: SL-121-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.154	J	0.0624	MDL	0.208	PQL	mg/Kg	J	Z, Q
ARSENIC	5.88		0.0624	MDL	0.416	PQL	mg/Kg	J	Q
COBALT	6.14		0.0208	MDL	0.104	PQL	mg/Kg	J	A
SILVER	0.0291	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	39.1		0.0229	MDL	0.104	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-122-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:40:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.120	J	0.0407	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:40:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	102		0.110	MDL	0.407	PQL	mg/Kg	J	A

Sample ID: SL-122-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.103	J	0.0611	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	4.98		0.0611	MDL	0.407	PQL	mg/Kg	J	Q
COBALT	5.19		0.0204	MDL	0.102	PQL	mg/Kg	J	A
SILVER	0.0169	J	0.0122	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	33.8		0.0224	MDL	0.102	PQL	mg/Kg	J	Q, A

Sample ID: SL-123-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:40:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.209	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:40:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.113	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-123-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.353		0.0626	MDL	0.209	PQL	mg/Kg	J	Q
ARSENIC	6.41		0.0626	MDL	0.418	PQL	mg/Kg	J	Q
COBALT	7.37		0.0209	MDL	0.104	PQL	mg/Kg	J	A
SILVER	0.0993	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	42.4		0.0230	MDL	0.104	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-124-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:00:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.181	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-124-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:00:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	176		0.113	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-124-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.238		0.0627	MDL	0.209	PQL	mg/Kg	J	Q
ARSENIC	7.25		0.0627	MDL	0.418	PQL	mg/Kg	J	Q
COBALT	8.02		0.0209	MDL	0.104	PQL	mg/Kg	J	A
SILVER	0.0973	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	55.1		0.0230	MDL	0.104	PQL	mg/Kg	J	Q, A

Sample ID: SL-142-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:04:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:04:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	116		0.114	MDL	0.422	PQL	mg/Kg	J	A

Sample ID: SL-142-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:04:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.125	J	0.0633	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	6.72		0.0633	MDL	0.422	PQL	mg/Kg	J	Q
COBALT	6.99		0.0211	MDL	0.106	PQL	mg/Kg	J	A
SILVER	0.0225	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	46.6		0.0232	MDL	0.106	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-143-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:15:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.112	J	0.0411	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:15:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.8		0.111	MDL	0.411	PQL	mg/Kg	J	A

Sample ID: SL-143-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0659	J	0.0617	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	4.52		0.0617	MDL	0.411	PQL	mg/Kg	J	Q
CADMIUM	0.0929	J	0.0370	MDL	0.103	PQL	mg/Kg	J	Z
COBALT	5.26		0.0206	MDL	0.103	PQL	mg/Kg	J	A
SILVER	0.0330	J	0.0123	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	36.0		0.0226	MDL	0.103	PQL	mg/Kg	J	Q, A

Sample ID: SL-240-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:33:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0812	J	0.0413	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-240-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:33:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	129		0.111	MDL	0.413	PQL	mg/Kg	J	A

Sample ID: SL-240-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:33:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.113	J	0.0619	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	4.41		0.0619	MDL	0.413	PQL	mg/Kg	J	Q
COBALT	6.25		0.0206	MDL	0.103	PQL	mg/Kg	J	A
SILVER	0.0304	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	42.0		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-309-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.135	J	0.0401	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-309-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:25:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	98.2		0.108	MDL	0.401	PQL	mg/Kg	J	A

Sample ID: SL-309-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.318		0.0601	MDL	0.200	PQL	mg/Kg	J	Q
ARSENIC	4.83		0.0601	MDL	0.401	PQL	mg/Kg	J	Q
COBALT	5.45		0.0200	MDL	0.100	PQL	mg/Kg	J	A
SILVER	0.0146	J	0.0120	MDL	0.100	PQL	mg/Kg	J	Z
VANADIUM	35.5		0.0220	MDL	0.100	PQL	mg/Kg	J	Q, A

Sample ID: SL-310-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0956	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-310-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	132		0.114	MDL	0.422	PQL	mg/Kg	J	A

Sample ID: SL-310-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.242		0.0633	MDL	0.211	PQL	mg/Kg	J	Q
ARSENIC	5.32		0.0633	MDL	0.422	PQL	mg/Kg	J	Q
COBALT	5.12		0.0211	MDL	0.105	PQL	mg/Kg	J	A
SILVER	0.0217	J	0.0127	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	40.0		0.0232	MDL	0.105	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-311-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.232	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-311-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	100		0.114	MDL	0.421	PQL	mg/Kg	J	A

Sample ID: SL-311-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.251		0.0631	MDL	0.210	PQL	mg/Kg	J	Q
ARSENIC	4.91		0.0631	MDL	0.421	PQL	mg/Kg	J	Q
COBALT	5.35		0.0210	MDL	0.105	PQL	mg/Kg	J	A
SILVER	0.103	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	36.0		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, A

Sample ID: SL-312-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:27:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.157	J	0.0409	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-312-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:27:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	105		0.110	MDL	0.409	PQL	mg/Kg	J	A

Sample ID: SL-312-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:27:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.142	J	0.0613	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	4.44		0.0613	MDL	0.409	PQL	mg/Kg	J	Q
COBALT	6.05		0.0204	MDL	0.102	PQL	mg/Kg	J	A
SILVER	0.0648	J	0.0123	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	40.2		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: DUP05-SA5B-QC-121410

Collected: 12/14/2010 8:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	2.8		0.21	MDL	1.0	PQL	mg/Kg	J	FD

Sample ID: SL-054-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:21:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-108-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.57	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.21	U	0.21	MDL	1.0	PQL	mg/Kg	UJ	FD

Sample ID: SL-121-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.43	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.43	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-124-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.59	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: DUP05-SA5B-QC-121410

Collected: 12/14/2010 8:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0029	U	0.0029	MDL	0.101	PQL	mg/Kg	UJ	FD

Sample ID: SED-025-SIV-SD-0.0-0.5

Collected: 12/14/2010 12:44:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0102	J	0.0031	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-054-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:21:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0220	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-098-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:43:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0248	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0207	J	0.0028	MDL	0.0979	PQL	mg/Kg	J	Z

Sample ID: SL-108-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0376	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-109-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0156	J	0.0029	MDL	0.0995	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0103	J	0.0030	MDL	0.103	PQL	mg/Kg	J	Z, FD

Sample ID: SL-121-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0048	J	0.0028	MDL	0.0990	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0044	J	0.0028	MDL	0.0988	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0225	J	0.0029	MDL	0.0995	PQL	mg/Kg	J	Z

Sample ID: SL-124-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0143	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0042	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-240-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:33:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0229	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-309-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0061	J	0.0028	MDL	0.0985	PQL	mg/Kg	J	Z

Sample ID: SL-310-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0067	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-311-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0132	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-312-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0077	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-119-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.051	J	0.039	MDL	0.18	PQL	ug/Kg	J	Z

Sample ID: SL-121-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.093	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z, L
4,4'-DDT	0.36		0.070	MDL	0.36	PQL	ug/Kg	J	L
HEPTACHLOR EPOXIDE	0.13	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-123-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:40:00

Analysis Type: DL-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	3.2		0.35	MDL	1.8	PQL	ug/Kg	J	L
4,4'-DDT	4.2		0.35	MDL	1.8	PQL	ug/Kg	J	L

Sample ID: SL-123-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.46		0.036	MDL	0.18	PQL	ug/Kg	J	S
DELTA-BHC	0.12	J	0.038	MDL	0.18	PQL	ug/Kg	J	Z, S
ENDRIN ALDEHYDE	2.2		0.070	MDL	0.36	PQL	ug/Kg	J	S
HEPTACHLOR EPOXIDE	0.27		0.036	MDL	0.18	PQL	ug/Kg	J	S
MIREX	0.45		0.070	MDL	0.36	PQL	ug/Kg	J	S

Sample ID: SL-142-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.36	J	0.070	MDL	0.36	PQL	ug/Kg	J	L
4,4'-DDT	0.13	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z, L
HEPTACHLOR EPOXIDE	0.15	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: DUP05-SA5B-QC-121410

Collected: 12/14/2010 8:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.5	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, S
AROCLOR 1260	1.1	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, S
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	L, E
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	FD, L, E

Sample ID: SED-025-SIV-SD-0.0-0.5

Collected: 12/14/2010 12:44:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SED-025-SIV-SD-0.0-0.5

Collected: 12/14/2010 12:44:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E, L

Sample ID: SL-054-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:21:00

Analysis Type: REA-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.5	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	6.4		1.1	MDL	3.5	PQL	ug/Kg	J	E, L

Sample ID: SL-098-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:43:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	4.9	J	3.4	MDL	18	PQL	ug/Kg	J	Z
Aroclor 5432	10	U	10	MDL	34	PQL	ug/Kg	UJ	E, L
Aroclor 5442	10	U	10	MDL	34	PQL	ug/Kg	UJ	L, E
Aroclor 5460	10	U	10	MDL	34	PQL	ug/Kg	UJ	E, L

Sample ID: SL-105-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:35:00

Analysis Type: REA-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	30		0.69	MDL	3.5	PQL	ug/Kg	J	S
Aroclor 5432	2.1	U	2.1	MDL	6.9	PQL	ug/Kg	UJ	E, L
Aroclor 5442	2.1	U	2.1	MDL	6.9	PQL	ug/Kg	UJ	L, E
Aroclor 5460	4.6	J	2.1	MDL	6.9	PQL	ug/Kg	J	Z, S, E, L

Sample ID: SL-108-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:55:00

Analysis Type: REA-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	2.6		0.35	MDL	1.8	PQL	ug/Kg	J	S
Aroclor 5432	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	3.3	J	1.0	MDL	3.5	PQL	ug/Kg	J	Z, S, E, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-109-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:09:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	2.4	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, E, L

Sample ID: SL-119-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:30:00

Analysis Type: REA-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	31		0.71	MDL	3.7	PQL	ug/Kg	J	S
Aroclor 5432	2.2	U	2.2	MDL	7.1	PQL	ug/Kg	UJ	E, L
Aroclor 5442	2.2	U	2.2	MDL	7.1	PQL	ug/Kg	UJ	L, E
Aroclor 5460	3.8	J	2.2	MDL	7.1	PQL	ug/Kg	J	Z, S, E, L

Sample ID: SL-120-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:47:00

Analysis Type: REA-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.94	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, S, Q
AROCLOR 1260	0.91	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, Q, S
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.9	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z, S, FD, E, L

Sample ID: SL-121-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L

Sample ID: SL-122-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:40:00

Analysis Type: REA-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	2.0		0.35	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1260	1.0	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, S
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-122-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:40:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L

Sample ID: SL-123-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L

Sample ID: SL-124-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:00:00

Analysis Type: REA-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	10		0.35	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1260	3.5		0.35	MDL	1.8	PQL	ug/Kg	J	S
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	4.8		1.1	MDL	3.5	PQL	ug/Kg	J	S, E, L

Sample ID: SL-142-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L

Sample ID: SL-143-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:15:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E, L

Sample ID: SL-143-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.67	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, S
AROCLOR 1260	0.51	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-143-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.1	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z, S, E, L

Sample ID: SL-240-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:33:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	L, E
Aroclor 5460	4.8		1.0	MDL	3.4	PQL	ug/Kg	J	E, L

Sample ID: SL-309-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.86	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E, L

Sample ID: SL-310-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.7	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L

Sample ID: SL-311-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L, E
Aroclor 5460	3.6		1.1	MDL	3.6	PQL	ug/Kg	J	E, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-312-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:27:00

Analysis Type: REA-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.0	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	5.2		1.1	MDL	3.5	PQL	ug/Kg	J	E, L

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: DUP05-SA5B-QC-121410

Collected: 12/14/2010 8:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCP	140	U	140	MDL	260	PQL	ug/Kg	UJ	FD

Sample ID: SED-025-SIV-SD-0.0-0.5

Collected: 12/14/2010 12:44:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.4	J	1.3	MDL	4.0	PQL	ug/Kg	J	Z
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-054-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:21:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.6	J	0.66	MDL	1.8	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-098-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:43:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCP	150	J	77	MDL	260	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-105-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-108-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-109-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:09:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-119-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-120-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.6	U	4.6	MDL	9.4	PQL	ug/Kg	R	Q
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCPA	720		79	MDL	260	PQL	ug/Kg	J	Q, Q
MCPD	200	J	78	MDL	260	PQL	ug/Kg	J	Z, FD

Sample ID: SL-121-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-122-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	8.0		0.66	MDL	1.8	PQL	ug/Kg	J	S
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L
MCPA	990		80	MDL	260	PQL	ug/Kg	J	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-122-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPP	240	J	79	MDL	260	PQL	ug/Kg	J	Z, S

Sample ID: SL-123-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.51	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L
MCPP	240	J	80	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-124-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICHLOROPROP	47		0.84	MDL	1.8	PQL	ug/Kg	J	S
DINOSEB	1.5	U	1.5	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-142-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.1	J	0.66	MDL	1.8	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L
MCPP	91	J	80	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-143-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-240-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:33:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCPP	150	J	78	MDL	260	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-309-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	0.70	J	0.65	MDL	1.8	PQL	ug/Kg	J	Z
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-310-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPA	98	J	80	MDL	260	PQL	ug/Kg	J	Z

Sample ID: SL-311-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	6.5		0.67	MDL	1.8	PQL	ug/Kg	J	S
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-312-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.6	J	0.65	MDL	1.8	PQL	ug/Kg	J	Z
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPA	81	J	79	MDL	260	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-054-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:21:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	30	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	110	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	69	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	74	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	31	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	32	J	18	MDL	180	PQL	ug/Kg	J	Z
CHRYSENE	130	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-054-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:21:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	32	J	18	MDL	180	PQL	ug/Kg	J	Z
PHENANTHRENE	75	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-108-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	37	J	17	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-109-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:09:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-119-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-120-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:47:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	UJ	Q

Sample ID: SL-123-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	89	J	18	MDL	350	PQL	ug/Kg	J	Z
Butylbenzylphthalate	21	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHRENE	33	J	18	MDL	180	PQL	ug/Kg	J	Z
PHENANTHRENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	30	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-309-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-309-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-312-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:27:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Dimethylphthalate	19	J	18	MDL	180	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: DUP05-SA5B-QC-121410

Collected: 12/14/2010 8:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.69	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	10		0.69	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	16		0.69	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	22		0.69	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	16		0.69	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	7.7		0.69	MDL	1.7	PQL	ug/Kg	J	FD
CHRYSENE	59		0.35	MDL	1.7	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	3.2		0.69	MDL	1.7	PQL	ug/Kg	J	FD
Di-n-butylphthalate	7.3	J	6.2	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	6.5	J	6.2	MDL	19	PQL	ug/Kg	J	Z
FLUORANTHENE	11		0.69	MDL	1.7	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	5.1		0.69	MDL	1.7	PQL	ug/Kg	J	FD
NAPHTHALENE	0.99	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, FD
PYRENE	15		0.69	MDL	1.7	PQL	ug/Kg	J	FD

Sample ID: SED-025-SIV-SD-0.0-0.5

Collected: 12/14/2010 12:44:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.2	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SED-025-SIV-SD-0.0-0.5

Collected: 12/14/2010 12:44:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	1.2	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	0.42	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.4	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.5	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.4	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.9	J	6.7	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-054-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:21:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	6.5	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-098-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:43:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.6	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.2	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.0	J	6.2	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.78	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.99	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-105-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.89	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.5	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.4	J	6.3	MDL	19	PQL	ug/Kg	J	Z
PYRENE	0.89	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-108-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.1	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.90	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.1	J	6.3	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-109-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:09:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.4	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	6.7	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-119-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.91	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.87	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.6	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.73	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.7	J	6.5	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.2	J	6.5	MDL	19	PQL	ug/Kg	J	Z
FLUORANTHENE	1.5	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-120-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:47:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.41	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	4.3		0.70	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	6.2		0.70	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	7.4		0.70	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	6.1		0.70	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	3.8		0.70	MDL	1.7	PQL	ug/Kg	J	FD
CHRYSENE	18		0.35	MDL	1.7	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	1.2	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-120-SA5B-SS-0.0-0.5

Collected: 12/14/2010 8:47:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	6.5	J	6.3	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	9.0	J	6.3	MDL	19	PQL	ug/Kg	J	Z
FLUORANTHENE	5.8		0.70	MDL	1.7	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	2.9		0.70	MDL	1.7	PQL	ug/Kg	J	FD
NAPHTHALENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	FD
PYRENE	7.0		0.70	MDL	1.7	PQL	ug/Kg	J	FD

Sample ID: SL-122-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.90	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.97	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.92	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.77	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-123-SA5B-SS-0.0-0.5

Collected: 12/14/2010 10:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	1.0	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	12	J	6.4	MDL	19	PQL	ug/Kg	J	Z
FLUORENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-124-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.82	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.77	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-142-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.41	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-143-SA5B-SS-0.0-0.5

Collected: 12/14/2010 11:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.57	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.88	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-240-SA5B-SS-0.0-0.5

Collected: 12/14/2010 9:33:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.0	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.81	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	0.96	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-309-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.52	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.6	J	6.3	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.5	J	6.3	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-310-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.40	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.82	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	6.7	J	6.3	MDL	19	PQL	ug/Kg	J	Z
PHENANTHRENE	0.99	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-311-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	6.2	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z
ACENAPHTHENE	4.9	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z

Sample ID: SL-312-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:27:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	6.1	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
ACENAPHTHENE	4.6	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
ANTHRACENE	1.9	J	1.8	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	8.4	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	6.4	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
PHENANTHRENE	4.7	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE038

Method Blank Outlier Report

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35108HB220811	12/29/2010 8:11:00 AM	CALCIUM LITHIUM	7.00 mg/Kg 0.33 mg/Kg	DUP05-SA5B-QC-121410 SED-025-SIV-SD-0.0-0.5 SL-054-SA5B-SS-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-SS-0.0-0.5
P35108HB221359	12/24/2010 1:59:00 PM	PHOSPHORUS TIN	1.61 mg/Kg 1.55 mg/Kg	DUP05-SA5B-QC-121410 SED-025-SIV-SD-0.0-0.5 SL-054-SA5B-SS-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP05-SA5B-QC-121410(RES)	TIN	1.69 mg/Kg	1.69U mg/Kg
SED-025-SIV-SD-0.0-0.5(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-054-SA5B-SS-0.0-0.5(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-098-SA5B-SS-0.0-0.5(RES)	TIN	2.25 mg/Kg	2.25U mg/Kg
SL-105-SA5B-SS-0.0-0.5(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-108-SA5B-SS-0.0-0.5(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-109-SA5B-SS-0.0-0.5(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SL-119-SA5B-SS-0.0-0.5(RES)	TIN	3.09 mg/Kg	3.09U mg/Kg
SL-120-SA5B-SS-0.0-0.5(RES)	TIN	2.16 mg/Kg	2.16U mg/Kg
SL-121-SA5B-SS-0.0-0.5(RES)	TIN	2.53 mg/Kg	2.53U mg/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	TIN	2.31 mg/Kg	2.31U mg/Kg
SL-123-SA5B-SS-0.0-0.5(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-124-SA5B-SS-0.0-0.5(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	TIN	3.07 mg/Kg	3.07U mg/Kg

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Method Blank Outlier Report

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-143-SA5B-SS-0.0-0.5(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-240-SA5B-SS-0.0-0.5(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-309-SA5B-SS-0.0-0.5(RES)	TIN	2.40 mg/Kg	2.40U mg/Kg
SL-310-SA5B-SS-0.0-0.5(RES)	TIN	2.35 mg/Kg	2.35U mg/Kg
SL-311-SA5B-SS-0.0-0.5(RES)	TIN	1.88 mg/Kg	1.88U mg/Kg
SL-312-SA5B-SS-0.0-0.5(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg

Method: 6020

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35126CB221254A	12/28/2010 12:54:00 PM	COPPER	0.0941 mg/Kg	DUP05-SA5B-QC-121410 SED-025-SIV-SD-0.0-0.5 SL-054-SA5B-SS-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLH35B260738	1/4/2011 7:38:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE	6.6 ug/Kg	DUP05-SA5B-QC-121410 SED-025-SIV-SD-0.0-0.5 SL-054-SA5B-SS-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-SS-0.0-0.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA5B-SS-0.0-0.5MS SL-120-SA5B-SS-0.0-0.5MSD (SL-120-SA5B-SS-0.0-0.5)	AROCOR 1016 AROCOR 1260	215 186	- 152	29.00-146.00 39.00-149.00	- -	AROCOR 1016, 1221, 1232 AROCOR 1242, 1248, 1254, 1260	J (all detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA5B-SS-0.0-0.5MSD (SL-120-SA5B-SS-0.0-0.5)	METHOXYCHLOR	-	163	32.00-147.00	-	METHOXYCHLOR	J(all detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA5B-SS-0.0-0.5MSD (SL-120-SA5B-SS-0.0-0.5)	DINOSEB	-	-	1.00-44.00	40 (35.00)	DINOSEB	J(all detects)
SL-120-SA5B-SS-0.0-0.5MSD (SL-120-SA5B-SS-0.0-0.5)	DALAPON	-	0	12.00-86.00	200 (50.00)	DALAPON	J(all detects) R(all non-detects)
SL-120-SA5B-SS-0.0-0.5MS SL-120-SA5B-SS-0.0-0.5MSD (SL-120-SA5B-SS-0.0-0.5)	MCPA	27	-	31.00-184.00	59 (50.00)	MCPA	J(all detects) UJ(all non-detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA5B-SS-0.0-0.5MS (DUP05-SA5B-QC-121410 SED -025-SIV-SD-0.0-0.5 SL -054-SA5B-SS-0.0-0.5 SL -098-SA5B-SS-0.0-0.5 SL -105-SA5B-SS-0.0-0.5 SL -108-SA5B-SS-0.0-0.5 SL -109-SA5B-SS-0.0-0.5 SL -119-SA5B-SS-0.0-0.5 SL -120-SA5B-SS-0.0-0.5 SL -121-SA5B-SS-0.0-0.5 SL -122-SA5B-SS-0.0-0.5 SL -123-SA5B-SS-0.0-0.5 SL -124-SA5B-SS-0.0-0.5 SL -142-SA5B-SS-0.0-0.5 SL -143-SA5B-SS-0.0-0.5 SL -240-SA5B-SS-0.0-0.5 SL -309-SA5B-SS-0.0-0.5 SL -310-SA5B-SS-0.0-0.5 SL -311-SA5B-SS-0.0-0.5 SL -312-SA5B-SS-0.0-0.5)	ARSENIC VANADIUM	167 134	- -	75.00-125.00 75.00-125.00	- -	ARSENIC VANADIUM	J(all detects)

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA5B-SS-0.0-0.5MS SL-120-SA5B-SS-0.0-0.5MSD (DUP05-SA5B-QC-121410 SED -025-SIV-SD-0.0-0.5 SL -054-SA5B-SS-0.0-0.5 SL -098-SA5B-SS-0.0-0.5 SL -105-SA5B-SS-0.0-0.5 SL -108-SA5B-SS-0.0-0.5 SL -109-SA5B-SS-0.0-0.5 SL -119-SA5B-SS-0.0-0.5 SL -120-SA5B-SS-0.0-0.5 SL -121-SA5B-SS-0.0-0.5 SL -122-SA5B-SS-0.0-0.5 SL -123-SA5B-SS-0.0-0.5 SL -124-SA5B-SS-0.0-0.5 SL -142-SA5B-SS-0.0-0.5 SL -143-SA5B-SS-0.0-0.5 SL -240-SA5B-SS-0.0-0.5 SL -309-SA5B-SS-0.0-0.5 SL -310-SA5B-SS-0.0-0.5 SL -311-SA5B-SS-0.0-0.5 SL -312-SA5B-SS-0.0-0.5)	ANTIMONY	68	67	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-120-SA5B-SS-0.0-0.5MS (DUP05-SA5B-QC-121410 SED -025-SIV-SD-0.0-0.5 SL -054-SA5B-SS-0.0-0.5 SL -098-SA5B-SS-0.0-0.5 SL -105-SA5B-SS-0.0-0.5 SL -108-SA5B-SS-0.0-0.5 SL -109-SA5B-SS-0.0-0.5 SL -119-SA5B-SS-0.0-0.5 SL -120-SA5B-SS-0.0-0.5 SL -121-SA5B-SS-0.0-0.5 SL -122-SA5B-SS-0.0-0.5 SL -123-SA5B-SS-0.0-0.5 SL -124-SA5B-SS-0.0-0.5 SL -142-SA5B-SS-0.0-0.5 SL -143-SA5B-SS-0.0-0.5 SL -240-SA5B-SS-0.0-0.5 SL -309-SA5B-SS-0.0-0.5 SL -310-SA5B-SS-0.0-0.5 SL -311-SA5B-SS-0.0-0.5 SL -312-SA5B-SS-0.0-0.5)	BARIUM	152	-	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA5B-SS-0.0-0.5MS SL-120-SA5B-SS-0.0-0.5MSD (DUP05-SA5B-QC-121410 SED -025-SIV-SD-0.0-0.5 SL -054-SA5B-SS-0.0-0.5 SL -098-SA5B-SS-0.0-0.5 SL -105-SA5B-SS-0.0-0.5 SL -108-SA5B-SS-0.0-0.5 SL -109-SA5B-SS-0.0-0.5 SL -119-SA5B-SS-0.0-0.5 SL -120-SA5B-SS-0.0-0.5 SL -121-SA5B-SS-0.0-0.5 SL -122-SA5B-SS-0.0-0.5 SL -123-SA5B-SS-0.0-0.5 SL -124-SA5B-SS-0.0-0.5 SL -142-SA5B-SS-0.0-0.5 SL -143-SA5B-SS-0.0-0.5 SL -240-SA5B-SS-0.0-0.5 SL -309-SA5B-SS-0.0-0.5 SL -310-SA5B-SS-0.0-0.5 SL -311-SA5B-SS-0.0-0.5 SL -312-SA5B-SS-0.0-0.5)	ALUMINUM TITANIUM	1443 -	1911 133	75.00-125.00 75.00-125.00	- -	ALUMINUM TITANIUM	J(all detects) AI No Qual, >4x
SL-120-SA5B-SS-0.0-0.5MS SL-120-SA5B-SS-0.0-0.5MSD (DUP05-SA5B-QC-121410 SED -025-SIV-SD-0.0-0.5 SL -054-SA5B-SS-0.0-0.5 SL -098-SA5B-SS-0.0-0.5 SL -105-SA5B-SS-0.0-0.5 SL -108-SA5B-SS-0.0-0.5 SL -109-SA5B-SS-0.0-0.5 SL -119-SA5B-SS-0.0-0.5 SL -120-SA5B-SS-0.0-0.5 SL -121-SA5B-SS-0.0-0.5 SL -122-SA5B-SS-0.0-0.5 SL -123-SA5B-SS-0.0-0.5 SL -124-SA5B-SS-0.0-0.5 SL -142-SA5B-SS-0.0-0.5 SL -143-SA5B-SS-0.0-0.5 SL -240-SA5B-SS-0.0-0.5 SL -309-SA5B-SS-0.0-0.5 SL -310-SA5B-SS-0.0-0.5 SL -311-SA5B-SS-0.0-0.5 SL -312-SA5B-SS-0.0-0.5)	CALCIUM IRON MAGNESIUM	-1 -985 14	211 -358 -	75.00-125.00 75.00-125.00 75.00-125.00	35 (20.00) - -	CALCIUM IRON MAGNESIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x
SL-120-SA5B-SS-0.0-0.5MS (DUP05-SA5B-QC-121410 SED -025-SIV-SD-0.0-0.5 SL -054-SA5B-SS-0.0-0.5 SL -098-SA5B-SS-0.0-0.5 SL -105-SA5B-SS-0.0-0.5 SL -108-SA5B-SS-0.0-0.5 SL -109-SA5B-SS-0.0-0.5 SL -119-SA5B-SS-0.0-0.5 SL -120-SA5B-SS-0.0-0.5 SL -121-SA5B-SS-0.0-0.5 SL -122-SA5B-SS-0.0-0.5 SL -123-SA5B-SS-0.0-0.5 SL -124-SA5B-SS-0.0-0.5 SL -142-SA5B-SS-0.0-0.5 SL -143-SA5B-SS-0.0-0.5 SL -240-SA5B-SS-0.0-0.5 SL -309-SA5B-SS-0.0-0.5 SL -310-SA5B-SS-0.0-0.5 SL -311-SA5B-SS-0.0-0.5 SL -312-SA5B-SS-0.0-0.5)	MANGANESE	60	-	75.00-125.00	-	MANGANESE	J(all detects) UJ(all non-detects)

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA5B-SS-0.0-0.5MS (SL-120-SA5B-SS-0.0-0.5)	BENZIDINE	28	-	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03548AY240246A (DUP05 -SA5B-QC-121410 SED -025-SIV-SD-0.0-0.5 SL -054-SA5B-SS-0.0-0.5 SL -098-SA5B-SS-0.0-0.5 SL -105-SA5B-SS-0.0-0.5 SL -108-SA5B-SS-0.0-0.5 SL -109-SA5B-SS-0.0-0.5 SL -119-SA5B-SS-0.0-0.5 SL -120-SA5B-SS-0.0-0.5 SL -121-SA5B-SS-0.0-0.5 SL -122-SA5B-SS-0.0-0.5 SL -123-SA5B-SS-0.0-0.5 SL -124-SA5B-SS-0.0-0.5 SL -142-SA5B-SS-0.0-0.5 SL -143-SA5B-SS-0.0-0.5 SL -240-SA5B-SS-0.0-0.5 SL -309-SA5B-SS-0.0-0.5 SL -310-SA5B-SS-0.0-0.5 SL -311-SA5B-SS-0.0-0.5 SL -312-SA5B-SS-0.0-0.5)	Aroclor 5442	-	66	75.00-125.00	35 (30.00)	Aroclor 5432, 5442, 5460	J (all detects) UJ (all non-detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03557AQ242112A (DUP05 -SA5B-QC-121410 SED -025-SIV-SD-0.0-0.5 SL -054-SA5B-SS-0.0-0.5 SL -098-SA5B-SS-0.0-0.5 SL -105-SA5B-SS-0.0-0.5 SL -108-SA5B-SS-0.0-0.5 SL -109-SA5B-SS-0.0-0.5 SL -119-SA5B-SS-0.0-0.5 SL -120-SA5B-SS-0.0-0.5 SL -121-SA5B-SS-0.0-0.5 SL -122-SA5B-SS-0.0-0.5 SL -123-SA5B-SS-0.0-0.5 SL -124-SA5B-SS-0.0-0.5 SL -142-SA5B-SS-0.0-0.5 SL -143-SA5B-SS-0.0-0.5 SL -240-SA5B-SS-0.0-0.5 SL -309-SA5B-SS-0.0-0.5 SL -310-SA5B-SS-0.0-0.5 SL -311-SA5B-SS-0.0-0.5 SL -312-SA5B-SS-0.0-0.5)	4,4'-DDE 4,4'-DDT ALDRIN ENDRIN METHOXYCHLOR	143 163 142 139 176	- - - - -	59.00-141.00 54.00-130.00 44.00-135.00 62.00-129.00 59.00-125.00	- - - - -	4,4'-DDE 4,4'-DDT ALDRIN ENDRIN METHOXYCHLOR	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03567AQ241618A (DUP05-SA5B-QC-121410 SED -025-SIV-SD-0.0-0.5 SL -054-SA5B-SS-0.0-0.5 SL -098-SA5B-SS-0.0-0.5 SL -105-SA5B-SS-0.0-0.5 SL -108-SA5B-SS-0.0-0.5 SL -109-SA5B-SS-0.0-0.5 SL -119-SA5B-SS-0.0-0.5 SL -120-SA5B-SS-0.0-0.5 SL -121-SA5B-SS-0.0-0.5 SL -122-SA5B-SS-0.0-0.5 SL -123-SA5B-SS-0.0-0.5 SL -124-SA5B-SS-0.0-0.5 SL -142-SA5B-SS-0.0-0.5 SL -143-SA5B-SS-0.0-0.5 SL -240-SA5B-SS-0.0-0.5 SL -309-SA5B-SS-0.0-0.5 SL -310-SA5B-SS-0.0-0.5 SL -311-SA5B-SS-0.0-0.5 SL -312-SA5B-SS-0.0-0.5)	DINOSEB	9	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-120-SA5B-SS-0.0-0.5DUP (DUP05-SA5B-QC-121410 SL -054-SA5B-SS-0.0-0.5 SL -105-SA5B-SS-0.0-0.5 SL -108-SA5B-SS-0.0-0.5 SL -109-SA5B-SS-0.0-0.5 SL -119-SA5B-SS-0.0-0.5 SL -120-SA5B-SS-0.0-0.5 SL -121-SA5B-SS-0.0-0.5 SL -122-SA5B-SS-0.0-0.5 SL -240-SA5B-SS-0.0-0.5)	FLUORIDE	200	20.00	No Qual OK by difference

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-120-SA5B-SS-0.0-0.5DUP (DUP05-SA5B-QC-121410 SED -025-SIV-SD-0.0-0.5 SL -054-SA5B-SS-0.0-0.5 SL -098-SA5B-SS-0.0-0.5 SL -105-SA5B-SS-0.0-0.5 SL -108-SA5B-SS-0.0-0.5 SL -109-SA5B-SS-0.0-0.5 SL -119-SA5B-SS-0.0-0.5 SL -120-SA5B-SS-0.0-0.5 SL -121-SA5B-SS-0.0-0.5 SL -122-SA5B-SS-0.0-0.5 SL -123-SA5B-SS-0.0-0.5 SL -124-SA5B-SS-0.0-0.5 SL -142-SA5B-SS-0.0-0.5 SL -143-SA5B-SS-0.0-0.5 SL -240-SA5B-SS-0.0-0.5 SL -309-SA5B-SS-0.0-0.5 SL -310-SA5B-SS-0.0-0.5 SL -311-SA5B-SS-0.0-0.5 SL -312-SA5B-SS-0.0-0.5)	LITHIUM MAGNESIUM POTASSIUM TITANIUM	25 26 22 25	20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Li No Qual OK by difference

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-120-SA5B-SS-0.0-0.5DUP (DUP05-SA5B-QC-121410 SED -025-SIV-SD-0.0-0.5 SL -054-SA5B-SS-0.0-0.5 SL -098-SA5B-SS-0.0-0.5 SL -105-SA5B-SS-0.0-0.5 SL -108-SA5B-SS-0.0-0.5 SL -109-SA5B-SS-0.0-0.5 SL -119-SA5B-SS-0.0-0.5 SL -120-SA5B-SS-0.0-0.5 SL -121-SA5B-SS-0.0-0.5 SL -122-SA5B-SS-0.0-0.5 SL -123-SA5B-SS-0.0-0.5 SL -124-SA5B-SS-0.0-0.5 SL -142-SA5B-SS-0.0-0.5 SL -143-SA5B-SS-0.0-0.5 SL -240-SA5B-SS-0.0-0.5 SL -309-SA5B-SS-0.0-0.5 SL -310-SA5B-SS-0.0-0.5 SL -311-SA5B-SS-0.0-0.5 SL -312-SA5B-SS-0.0-0.5)	SELENIUM	23	20.00	No Qual OK by difference

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-120-SA5B-SS-0.0-0.5DUP (DUP05-SA5B-QC-121410 SED -025-SIV-SD-0.0-0.5 SL -054-SA5B-SS-0.0-0.5 SL -098-SA5B-SS-0.0-0.5 SL -105-SA5B-SS-0.0-0.5 SL -108-SA5B-SS-0.0-0.5 SL -109-SA5B-SS-0.0-0.5 SL -119-SA5B-SS-0.0-0.5 SL -120-SA5B-SS-0.0-0.5 SL -121-SA5B-SS-0.0-0.5 SL -122-SA5B-SS-0.0-0.5 SL -123-SA5B-SS-0.0-0.5 SL -124-SA5B-SS-0.0-0.5 SL -142-SA5B-SS-0.0-0.5 SL -143-SA5B-SS-0.0-0.5 SL -240-SA5B-SS-0.0-0.5 SL -309-SA5B-SS-0.0-0.5 SL -310-SA5B-SS-0.0-0.5 SL -311-SA5B-SS-0.0-0.5 SL -312-SA5B-SS-0.0-0.5)	HEXAVALENT CHROMIUM	200	20.00	No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-098-SA5B-SS-0.0-0.5DUP (SED-025-SIV-SD-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-SS-0.0-0.5)	FLUORIDE	34	20.00	No Qual OK by difference

Lab Reporting Batch ID: DE038

EDD Filename: DE038_v1

Surrogate Outlier Report

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP05-SA5B-QC-121410	DECACHLOROBIPHENYL	244	20.00-120.00	All Target Analytes	J (all detects)
SL-120-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	162	20.00-120.00	All Target Analytes	J(all detects)
SL-123-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	220	20.00-120.00	All Target Analytes	J(all detects)
SL-124-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	137	20.00-120.00	All Target Analytes	J(all detects)
SL-311-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	141	20.00-120.00	All Target Analytes	J(all detects)

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP05-SA5B-QC-121410	DECACHLOROBIPHENYL	129	45.00-120.00	All Target Analytes	J(all detects)
SL-098-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	128	45.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-105-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	179 159	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-108-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	126	45.00-120.00	All Target Analytes	J(all detects)
SL-119-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	173 159	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-120-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	137	45.00-120.00	All Target Analytes	J(all detects)
SL-121-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	140	45.00-120.00	All Target Analytes	J(all detects)
SL-122-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	137 145	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-124-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	141	45.00-120.00	All Target Analytes	J(all detects)
SL-142-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	126	45.00-120.00	All Target Analytes	J(all detects)
SL-143-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	125	45.00-120.00	All Target Analytes	J(all detects)

Method: 8151A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-122-SA5B-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	162	36.00-156.00	All Target Analytes	J(all detects)
SL-124-SA5B-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	174	36.00-156.00	All Target Analytes	J(all detects)
SL-311-SA5B-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	226	36.00-156.00	All Target Analytes	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
MOISTURE	4.1	3.4	19		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
FLUORIDE	1.0 U	1.0	200	50.00	J(all detects) UJ(all non-detects)

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
ALUMINUM	7750	6070	24	50.00	No Qualifiers Applied
BORON	5.91	5.07	15	50.00	
CALCIUM	2070	1870	10	50.00	
IRON	10500	8140	25	50.00	
MAGNESIUM	1850	1170	45	50.00	
MANGANESE	131	94.0	33	50.00	
PHOSPHORUS	271	232	16	50.00	
POTASSIUM	1440	955	41	50.00	
STRONTIUM	25.0	24.4	2	50.00	
TIN	2.16	1.69	24	50.00	
TITANIUM	404	248	48	50.00	
LITHIUM	7.6	4.4	53	50.00	J(all detects) UJ(all non-detects)
SODIUM	49.7	101 U	200	50.00	
Zirconium	2.17	1.19	58	50.00	

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
ANTIMONY	0.155	0.169	9	50.00	No Qualifiers Applied
ARSENIC	3.17	4.38	32	50.00	
BARIUM	48.1	56.9	17	50.00	
BERYLLIUM	0.294	0.270	9	50.00	
CADMIUM	0.121	0.180	39	50.00	
CHROMIUM	8.45	9.66	13	50.00	
COBALT	3.77	4.40	15	50.00	
COPPER	5.68	6.39	12	50.00	
LEAD	5.86	6.89	16	50.00	
MOLYBDENUM	0.310	0.384	21	50.00	
NICKEL	5.49	5.58	2	50.00	
SELENIUM	0.146	0.157	7	50.00	
THALLIUM	0.101	0.0943	7	50.00	
VANADIUM	17.5	20.2	14	50.00	
ZINC	26.3	36.5	32	50.00	
SILVER	0.0154	0.104 U	200	50.00	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
HEXAVALENT CHROMIUM	1.0 U	2.8	200	50.00	J(all detects) UJ(all non-detects)

Method: 7471A

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
MERCURY	0.0103	0.101 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
AROCLOR 1254	0.94	1.5	46	50.00	No Qualifiers Applied
AROCLOR 1260	0.91	1.1	19	50.00	
Aroclor 5460	1.9	3.4 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8151A

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
2,4-DB	3.9	6.2	46	50.00	No Qualifiers Applied
MCPA	720	820	13	50.00	
MCP	200	260 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
Di-n-butylphthalate	6.5	7.3	12	50.00	No Qualifiers Applied
Di-n-octylphthalate	9.0	6.5	32	50.00	
PHENANTHRENE	2.3	3.7	47	50.00	
ANTHRACENE	0.41	0.69	51	50.00	J(all detects) UJ(all non-detects)
BENZO(A)ANTHRACENE	4.3	10	80	50.00	
BENZO(A)PYRENE	6.2	16	88	50.00	
BENZO(B)FLUORANTHENE	7.4	22	99	50.00	
BENZO(G,H,I)PERYLENE	6.1	16	90	50.00	
BENZO(K)FLUORANTHENE	3.8	7.7	68	50.00	
CHRYSENE	18	59	106	50.00	
DIBENZO(A,H)ANTHRACENE	1.2	3.2	91	50.00	
FLUORANTHENE	5.8	11	62	50.00	
INDENO(1,2,3-CD)PYRENE	2.9	5.1	55	50.00	
NAPHTHALENE	1.7 U	0.99	200	50.00	
PYRENE	7.0	15	73	50.00	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: PrepDE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
PH	8.38	7.88	6	50.00	No Qualifiers Applied

Method: ASTM D1498

Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
Oxidation Reduction Potential	414	415	0		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5B-QC-121410	TIN Zirconium	J	1.69	10.1	PQL	mg/Kg	J (all detects)
		J	1.19	5.03	PQL	mg/Kg	
SED-025-SIV-SD-0.0-0.5	SODIUM TIN Zirconium	J	67.1	108	PQL	mg/Kg	J (all detects)
		J	2.54	10.8	PQL	mg/Kg	
		J	1.29	5.42	PQL	mg/Kg	
SL-054-SA5B-SS-0.0-0.5	TIN Zirconium	J	2.78	10.4	PQL	mg/Kg	J (all detects)
		J	1.62	5.18	PQL	mg/Kg	
SL-098-SA5B-SS-0.0-0.5	TIN Zirconium	J	2.25	10.2	PQL	mg/Kg	J (all detects)
		J	1.40	5.11	PQL	mg/Kg	
SL-105-SA5B-SS-0.0-0.5	TIN	J	2.60	10.3	PQL	mg/Kg	J (all detects)
SL-108-SA5B-SS-0.0-0.5	TIN	J	2.61	10.3	PQL	mg/Kg	J (all detects)
SL-109-SA5B-SS-0.0-0.5	TIN Zirconium	J	2.66	10.2	PQL	mg/Kg	J (all detects)
		J	1.54	5.10	PQL	mg/Kg	
SL-119-SA5B-SS-0.0-0.5	SODIUM TIN Zirconium	J	98.1	105	PQL	mg/Kg	J (all detects)
		J	3.09	10.5	PQL	mg/Kg	
		J	1.08	5.25	PQL	mg/Kg	
SL-120-SA5B-SS-0.0-0.5	SODIUM TIN Zirconium	J	49.7	103	PQL	mg/Kg	J (all detects)
		J	2.16	10.3	PQL	mg/Kg	
		J	2.17	5.16	PQL	mg/Kg	
SL-121-SA5B-SS-0.0-0.5	SODIUM TIN Zirconium	J	86.8	104	PQL	mg/Kg	J (all detects)
		J	2.53	10.4	PQL	mg/Kg	
		J	1.93	5.20	PQL	mg/Kg	
SL-122-SA5B-SS-0.0-0.5	SODIUM TIN Zirconium	J	70.0	105	PQL	mg/Kg	J (all detects)
		J	2.31	10.5	PQL	mg/Kg	
		J	1.81	5.24	PQL	mg/Kg	
SL-123-SA5B-SS-0.0-0.5	SODIUM TIN Zirconium	J	75.6	102	PQL	mg/Kg	J (all detects)
		J	2.76	10.2	PQL	mg/Kg	
		J	1.69	5.12	PQL	mg/Kg	
SL-124-SA5B-SS-0.0-0.5	SODIUM TIN Zirconium	J	83.6	102	PQL	mg/Kg	J (all detects)
		J	3.05	10.2	PQL	mg/Kg	
		J	2.30	5.12	PQL	mg/Kg	
SL-142-SA5B-SS-0.0-0.5	SODIUM TIN Zirconium	J	77.6	105	PQL	mg/Kg	J (all detects)
		J	3.07	10.5	PQL	mg/Kg	
		J	1.88	5.23	PQL	mg/Kg	
SL-143-SA5B-SS-0.0-0.5	SODIUM TIN Zirconium	J	70.1	103	PQL	mg/Kg	J (all detects)
		J	2.62	10.3	PQL	mg/Kg	
		J	1.72	5.14	PQL	mg/Kg	
SL-240-SA5B-SS-0.0-0.5	TIN Zirconium	J	2.62	10.0	PQL	mg/Kg	J (all detects)
		J	2.11	5.01	PQL	mg/Kg	
SL-309-SA5B-SS-0.0-0.5	TIN Zirconium	J	2.40	10.3	PQL	mg/Kg	J (all detects)
		J	1.25	5.16	PQL	mg/Kg	
SL-310-SA5B-SS-0.0-0.5	TIN Zirconium	J	2.35	10.3	PQL	mg/Kg	J (all detects)
		J	1.64	5.17	PQL	mg/Kg	
SL-311-SA5B-SS-0.0-0.5	TIN Zirconium	J	1.88	10.7	PQL	mg/Kg	J (all detects)
		J	3.31	5.36	PQL	mg/Kg	
SL-312-SA5B-SS-0.0-0.5	TIN Zirconium	J	2.69	10.4	PQL	mg/Kg	J (all detects)
		J	1.60	5.21	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5B-QC-121410	ANTIMONY	J	0.169	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.157	0.414	PQL	mg/Kg	
	THALLIUM	J	0.0943	0.104	PQL	mg/Kg	
SED-025-SIV-SD-0.0-0.5	ANTIMONY	J	0.136	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.160	0.438	PQL	mg/Kg	
	SILVER	J	0.0400	0.109	PQL	mg/Kg	
SL-054-SA5B-SS-0.0-0.5	SELENIUM	J	0.104	0.422	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0379	0.106	PQL	mg/Kg	
SL-098-SA5B-SS-0.0-0.5	ANTIMONY	J	0.126	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0689	0.405	PQL	mg/Kg	
	SILVER	J	0.0257	0.101	PQL	mg/Kg	
SL-105-SA5B-SS-0.0-0.5	ANTIMONY	J	0.144	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0577	0.409	PQL	mg/Kg	
	SILVER	J	0.0340	0.102	PQL	mg/Kg	
SL-108-SA5B-SS-0.0-0.5	ANTIMONY	J	0.149	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0656	0.414	PQL	mg/Kg	
	SILVER	J	0.0221	0.104	PQL	mg/Kg	
SL-109-SA5B-SS-0.0-0.5	ANTIMONY	J	0.127	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0757	0.412	PQL	mg/Kg	
	SILVER	J	0.0289	0.103	PQL	mg/Kg	
SL-119-SA5B-SS-0.0-0.5	SELENIUM	J	0.161	0.429	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0445	0.107	PQL	mg/Kg	
SL-120-SA5B-SS-0.0-0.5	ANTIMONY	J	0.155	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.146	0.413	PQL	mg/Kg	
	SILVER	J	0.0154	0.103	PQL	mg/Kg	
	THALLIUM	J	0.101	0.103	PQL	mg/Kg	
SL-121-SA5B-SS-0.0-0.5	ANTIMONY	J	0.154	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.158	0.416	PQL	mg/Kg	
	SILVER	J	0.0291	0.104	PQL	mg/Kg	
SL-122-SA5B-SS-0.0-0.5	ANTIMONY	J	0.103	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.120	0.407	PQL	mg/Kg	
	SILVER	J	0.0169	0.102	PQL	mg/Kg	
SL-123-SA5B-SS-0.0-0.5	SELENIUM	J	0.209	0.418	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0993	0.104	PQL	mg/Kg	
SL-124-SA5B-SS-0.0-0.5	SELENIUM	J	0.181	0.418	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0973	0.104	PQL	mg/Kg	
SL-142-SA5B-SS-0.0-0.5	ANTIMONY	J	0.125	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.144	0.422	PQL	mg/Kg	
	SILVER	J	0.0225	0.106	PQL	mg/Kg	
SL-143-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0659	0.206	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0929	0.103	PQL	mg/Kg	
	SELENIUM	J	0.112	0.411	PQL	mg/Kg	
	SILVER	J	0.0330	0.103	PQL	mg/Kg	
SL-240-SA5B-SS-0.0-0.5	ANTIMONY	J	0.113	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0812	0.413	PQL	mg/Kg	
	SILVER	J	0.0304	0.103	PQL	mg/Kg	
SL-309-SA5B-SS-0.0-0.5	SELENIUM	J	0.135	0.401	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0146	0.100	PQL	mg/Kg	
SL-310-SA5B-SS-0.0-0.5	SELENIUM	J	0.0956	0.422	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0217	0.105	PQL	mg/Kg	
SL-311-SA5B-SS-0.0-0.5	SELENIUM	J	0.232	0.421	PQL	mg/Kg	J (all detects)
	SILVER	J	0.103	0.105	PQL	mg/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/19/2011 1:49:08 PM

ADR version 1.3.0.71

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Reporting Limit Outliers

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-312-SA5B-SS-0.0-0.5	ANTIMONY	J	0.142	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.157	0.409	PQL	mg/Kg	
	SILVER	J	0.0648	0.102	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-054-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-108-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.52	1.0	PQL	mg/Kg	J (all detects)
SL-119-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.57	1.1	PQL	mg/Kg	J (all detects)
SL-121-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.43	1.1	PQL	mg/Kg	J (all detects)
SL-122-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.43	1.1	PQL	mg/Kg	J (all detects)
SL-123-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.66	1.1	PQL	mg/Kg	J (all detects)
SL-124-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.59	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-025-SIV-SD-0.0-0.5	MERCURY	J	0.0102	0.110	PQL	mg/Kg	J (all detects)
SL-054-SA5B-SS-0.0-0.5	MERCURY	J	0.0220	0.102	PQL	mg/Kg	J (all detects)
SL-098-SA5B-SS-0.0-0.5	MERCURY	J	0.0248	0.101	PQL	mg/Kg	J (all detects)
SL-105-SA5B-SS-0.0-0.5	MERCURY	J	0.0207	0.0979	PQL	mg/Kg	J (all detects)
SL-108-SA5B-SS-0.0-0.5	MERCURY	J	0.0376	0.102	PQL	mg/Kg	J (all detects)
SL-109-SA5B-SS-0.0-0.5	MERCURY	J	0.0156	0.0995	PQL	mg/Kg	J (all detects)
SL-120-SA5B-SS-0.0-0.5	MERCURY	J	0.0103	0.103	PQL	mg/Kg	J (all detects)
SL-121-SA5B-SS-0.0-0.5	MERCURY	J	0.0048	0.0990	PQL	mg/Kg	J (all detects)
SL-122-SA5B-SS-0.0-0.5	MERCURY	J	0.0044	0.0988	PQL	mg/Kg	J (all detects)
SL-123-SA5B-SS-0.0-0.5	MERCURY	J	0.0225	0.0995	PQL	mg/Kg	J (all detects)
SL-124-SA5B-SS-0.0-0.5	MERCURY	J	0.0143	0.105	PQL	mg/Kg	J (all detects)
SL-142-SA5B-SS-0.0-0.5	MERCURY	J	0.0042	0.102	PQL	mg/Kg	J (all detects)
SL-240-SA5B-SS-0.0-0.5	MERCURY	J	0.0229	0.102	PQL	mg/Kg	J (all detects)
SL-309-SA5B-SS-0.0-0.5	MERCURY	J	0.0061	0.0985	PQL	mg/Kg	J (all detects)
SL-310-SA5B-SS-0.0-0.5	MERCURY	J	0.0067	0.104	PQL	mg/Kg	J (all detects)
SL-311-SA5B-SS-0.0-0.5	MERCURY	J	0.0132	0.107	PQL	mg/Kg	J (all detects)
SL-312-SA5B-SS-0.0-0.5	MERCURY	J	0.0077	0.101	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-119-SA5B-SS-0.0-0.5	DELTA-BHC	J	0.051	0.18	PQL	ug/Kg	J (all detects)
SL-121-SA5B-SS-0.0-0.5	4,4'-DDE	J	0.093	0.36	PQL	ug/Kg	J (all detects)
	HEPTACHLOR EPOXIDE	J	0.13	0.18	PQL	ug/Kg	
SL-123-SA5B-SS-0.0-0.5	DELTA-BHC	J	0.12	0.18	PQL	ug/Kg	J (all detects)
SL-142-SA5B-SS-0.0-0.5	4,4'-DDT	J	0.13	0.36	PQL	ug/Kg	J (all detects)
	HEPTACHLOR EPOXIDE	J	0.15	0.18	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5B-QC-121410	AROCLOR 1254	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.1	1.8	PQL	ug/Kg	
SED-025-SIV-SD-0.0-0.5	AROCLOR 1254	J	1.2	1.9	PQL	ug/Kg	J (all detects)
SL-054-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.5	1.8	PQL	ug/Kg	J (all detects)
SL-098-SA5B-SS-0.0-0.5	AROCLOR 1254	J	4.9	18	PQL	ug/Kg	J (all detects)
SL-105-SA5B-SS-0.0-0.5	Aroclor 5460	J	4.6	6.9	PQL	ug/Kg	J (all detects)
SL-108-SA5B-SS-0.0-0.5	Aroclor 5460	J	3.3	3.5	PQL	ug/Kg	J (all detects)
SL-109-SA5B-SS-0.0-0.5	Aroclor 5460	J	2.4	3.5	PQL	ug/Kg	J (all detects)
SL-119-SA5B-SS-0.0-0.5	Aroclor 5460	J	3.8	7.1	PQL	ug/Kg	J (all detects)
SL-120-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.94	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.91	1.8	PQL	ug/Kg	
	Aroclor 5460	J	1.9	3.4	PQL	ug/Kg	
SL-122-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.0	1.8	PQL	ug/Kg	J (all detects)
SL-143-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.67	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.51	1.8	PQL	ug/Kg	
	Aroclor 5460	J	1.1	3.4	PQL	ug/Kg	
SL-309-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.86	1.8	PQL	ug/Kg	J (all detects)
SL-310-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.7	1.8	PQL	ug/Kg	J (all detects)
SL-312-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.0	1.8	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-025-SIV-SD-0.0-0.5	2,4-D	J	1.4	4.0	PQL	ug/Kg	J (all detects)
SL-054-SA5B-SS-0.0-0.5	2,4-DB	J	1.6	1.8	PQL	ug/Kg	J (all detects)
SL-098-SA5B-SS-0.0-0.5	MCP	J	150	260	PQL	ug/Kg	J (all detects)
SL-120-SA5B-SS-0.0-0.5	MCP	J	200	260	PQL	ug/Kg	J (all detects)
SL-122-SA5B-SS-0.0-0.5	MCP	J	240	260	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-123-SA5B-SS-0.0-0.5	DICAMBA MCP	J	0.51	1.3	PQL	ug/Kg	J (all detects)
		J	240	270	PQL	ug/Kg	
SL-142-SA5B-SS-0.0-0.5	2,4-DB MCP	J	1.1	1.8	PQL	ug/Kg	J (all detects)
		J	91	270	PQL	ug/Kg	
SL-240-SA5B-SS-0.0-0.5	MCP	J	150	260	PQL	ug/Kg	J (all detects)
SL-309-SA5B-SS-0.0-0.5	2,4-DB	J	0.70	1.8	PQL	ug/Kg	J (all detects)
SL-310-SA5B-SS-0.0-0.5	MCP	J	98	260	PQL	ug/Kg	J (all detects)
SL-312-SA5B-SS-0.0-0.5	2,4-DB MCP	J	1.6	1.8	PQL	ug/Kg	J (all detects)
		J	81	260	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-054-SA5B-SS-0.0-0.5	ANTHRACENE	J	30	180	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	110	180	PQL	ug/Kg	
	BENZO(A)PYRENE	J	69	180	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	74	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	31	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	32	180	PQL	ug/Kg	
	CHRYSENE	J	130	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	32	180	PQL	ug/Kg	
SL-108-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	37	350	PQL	ug/Kg	J (all detects)
		J	19	350	PQL	ug/Kg	
SL-109-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	360	PQL	ug/Kg	J (all detects)
SL-123-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	89	350	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	21	180	PQL	ug/Kg	
	FLUORANTHENE	J	33	180	PQL	ug/Kg	
	PHENANTHRENE	J	22	180	PQL	ug/Kg	
	PYRENE	J	30	180	PQL	ug/Kg	
SL-309-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	20	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	18	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	17	170	PQL	ug/Kg	
	FLUORANTHENE	J	18	170	PQL	ug/Kg	
	PYRENE	J	23	170	PQL	ug/Kg	
SL-312-SA5B-SS-0.0-0.5	Dimethylphthalate	J	19	180	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5B-QC-121410	ANTHRACENE	J	0.69	1.7	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	7.3	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	6.5	19	PQL	ug/Kg	
	NAPHTHALENE	J	0.99	1.7	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-025-SIV-SD-0.0-0.5	1-METHYLNAPHTHALENE	J	1.2	1.9	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.2	1.9	PQL	ug/Kg	
	ANTHRACENE	J	0.42	1.9	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.4	1.9	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.5	1.9	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.4	20	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.9	20	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	1.9	PQL	ug/Kg	
SL-054-SA5B-SS-0.0-0.5	Di-n-octylphthalate	J	6.5	19	PQL	ug/Kg	J (all detects)
SL-098-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.6	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.1	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.0	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.78	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.99	1.7	PQL	ug/Kg	
SL-105-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.89	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.5	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.4	19	PQL	ug/Kg	
	PYRENE	J	0.89	1.7	PQL	ug/Kg	
SL-108-SA5B-SS-0.0-0.5	ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	0.90	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.1	19	PQL	ug/Kg	
SL-109-SA5B-SS-0.0-0.5	ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.7	19	PQL	ug/Kg	
SL-119-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.91	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.87	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.73	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.7	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.2	19	PQL	ug/Kg	
	FLUORANTHENE	J	1.5	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
SL-120-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.41	1.7	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.2	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.5	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	9.0	19	PQL	ug/Kg	
SL-122-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.90	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.97	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.92	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.77	1.8	PQL	ug/Kg	
	PYRENE	J	1.0	1.8	PQL	ug/Kg	
SL-123-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	12	19	PQL	ug/Kg	
	FLUORENE	J	1.2	1.8	PQL	ug/Kg	
SL-124-SA5B-SS-0.0-0.5	CHRYSENE	J	0.82	1.8	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.77	1.8	PQL	ug/Kg	
	PYRENE	J	1.2	1.8	PQL	ug/Kg	
SL-142-SA5B-SS-0.0-0.5	CHRYSENE	J	0.41	1.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE038

Laboratory: LL

EDD Filename: DE038_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-143-SA5B-SS-0.0-0.5	CHRYSENE	J	0.57	1.7	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	
	PYRENE	J	0.88	1.7	PQL	ug/Kg	
SL-240-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.0	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.81	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	0.96	1.7	PQL	ug/Kg	
	PYRENE	J	1.2	1.7	PQL	ug/Kg	
SL-309-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.52	1.7	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	7.6	19	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.5	19	PQL	ug/Kg	
SL-310-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.40	1.8	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	0.82	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.7	19	PQL	ug/Kg	
	PHENANTHRENE	J	0.99	1.8	PQL	ug/Kg	
SL-311-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	6.2	9.0	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	4.9	9.0	PQL	ug/Kg	
SL-312-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	6.1	8.8	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	4.6	8.8	PQL	ug/Kg	
	ANTHRACENE	J	1.9	8.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	8.4	8.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	6.4	8.8	PQL	ug/Kg	
	PHENANTHRENE	J	4.7	8.8	PQL	ug/Kg	

LDC #: 25550A4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE038

ADR

Laboratory: Lancaster Laboratories

Date: 6/6/11

Page: 1 of 1

Reviewer: OR

2nd Reviewer: **METHOD:** Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, B, Ca, Fe, Mg > 4x)
VII.	Duplicate Sample Analysis	N	Qp L: < 5x
VIII.	Laboratory Control Samples (LCS)	N	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/JS/A (A) [Ba, C, V]
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	—	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	DUP05-SA5B-QC-121410	11	SL-098-SA5B-SS-0.0-0.5	21	SL-120-SA5B-SS-0.0-0.5MS	31	
2	SL-120-SA5B-SS-0.0-0.5	12	SL-142-SA5B-SS-0.0-0.5	22	SL-120-SA5B-SS-0.0-0.5MSD	32	
3	SL-108-SA5B-SS-0.0-0.5	13	SL-143-SA5B-SS-0.0-0.5	23	SL-120-SA5B-SS-0.0-0.5DUP	33	
4	SL-119-SA5B-SS-0.0-0.5	14	SL-123-SA5B-SS-0.0-0.5	24		34	
5	SL-240-SA5B-SS-0.0-0.5	15	SL-124-SA5B-SS-0.0-0.5	25		35	
6	SL-109-SA5B-SS-0.0-0.5	16	SL-309-SA5B-SS-0.0-0.5	26		36	
7	SL-122-SA5B-SS-0.0-0.5	17	SL-311-SA5B-SS-0.0-0.5	27		37	
8	SL-121-SA5B-SS-0.0-0.5	18	SL-310-SA5B-SS-0.0-0.5	28		38	
9	SL-054-SA5B-SS-0.0-0.5	19	SL-312-SA5B-SS-0.0-0.5	29		39	
10	SL-105-SA5B-SS-0.0-0.5	20	SED-025-SIV-SD-0.0-0.5	30		40	

Notes: _____

All circled elements are applicable to each sample.

[illegible]

Comments: Mercury by CVAA if performed



QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: DE038

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6164622BKG

Serial Dilution Lab Sample ID: 6164622L

Batch ID(s): P35108H, P35126C

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		75083.8600		75125.5500		0		P
Antimony	121	0.7505	B	1.5000	U	100		MS
Arsenic	75	15.3700		14.9150		3		MS
Barium	137	232.8000		259.7500		12	E	MS
Beryllium	9	1.4260		1.4850	B	4		MS
Boron		57.2600		78.4000	B	37		P
Cadmium	111	0.5862		1.1705	B	100		MS
Calcium		20054.8600		20420.0500		2		P
Chromium	52	40.9000		43.1200		5		MS
Cobalt	59	18.2500		22.7950		25	E	MS
Copper	63	27.5000		29.9350		9		MS
Iron		101220.8000		104403.4000		3		P
Lead	208	28.3600		31.2850		10		MS
Lithium		73.3000		89.0500	B	21		P
Magnesium		17870.5800		17791.9000		0		P
Manganese		1270.6400		1351.8500		6		P
Molybdenum	98	1.5020		1.7045	B	13		MS
Nickel	60	26.6000		30.8550		16		MS
Phosphorus		2627.6600		2747.8500		5		P
Potassium		13921.1800		13905.4500		0		P
Selenium	78	0.7048	B	1.0000	U	100		MS
Silver	107	0.0748	B	0.3000	U	100		MS
Sodium		481.7800	B	1865.0000	U	100		P
Strontium		242.6000		246.0500		1		P
Thallium	203	0.4885	B	0.7500	U	100		MS
Tin		20.8800	B	50.0000	U	100		P
Titanium		3909.2500		4013.4000		3		P
Vanadium	51	84.8300		103.1500		22	E	MS
Zinc	66	127.3000		129.7500		2		MS
Zirconium		21.0000	B	42.0000	U	100		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:

P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:

DE038 3943

U= Below MDL

B= Below LOQ

FLAGS:

E = Matrix Effects exist as proven by
Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE039

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	TB-121410	6164943	TB	5030B	8015M	IV
14-Dec-2010	TB-121410	6164943	TB	5030B	8260B SIM	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	3050B	6010B	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	3050B	6020	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	3060A	7199	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	3550B	8081A	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	3550B	8082	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	3550B	8151A	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	3550B	8270C	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	3550B	8270C SIM	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	Gen Prep	9045M	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	METHOD	300.0	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	METHOD	314.0	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	METHOD	7471A	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3050B	6010B	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3060A	7199	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3546	1625C	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3550B	8015B	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3550B	8015M	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3550B	8082	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3550B	8270C	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3550B	8270C SIM	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	5035	8015M	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	5035	8260B	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	5035	8260B SIM	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	8330	8330A	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	Gen Prep	9045M	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	METHOD	300.0	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	METHOD	314.0	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	METHOD	7471A	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	METHOD	8015B	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	METHOD	8015M	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	METHOD	8315A	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	METHOD	9012B	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D221008	DUP	METHOD	7471A	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D221205A	DUP	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D221205C	DUP	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D221205D	DUP	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D221728B	DUP	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D221855	DUP	3050B	6010B	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D270013A	DUP	METHOD	300.0	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D271326A	DUP	3060A	7199	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D271511A	DUP	METHOD	314.0	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M221010	MSD	METHOD	7471A	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M221211A	MSD	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M221211C	MSD	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M221211D	MSD	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M221733B	MSD	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M221903	MSD	3050B	6010B	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M261236	MSD	3550B	8270C	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M261843	MSD	3546	1625C	IV

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M261915	MSD	3550B	8270C SIM	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M322108A	MSD	METHOD	8015M	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R221009	MS	METHOD	7471A	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R221208A	MS	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R221208C	MS	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R221208D	MS	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R221730B	MS	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R221859	MS	3050B	6010B	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R261202	MS	3550B	8270C	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R261826	MS	3546	1625C	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R261841	MS	3550B	8270C SIM	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R270028A	MS	METHOD	300.0	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R271230A	MS	3060A	7199	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R271535A	MS	METHOD	314.0	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R322052A	MS	METHOD	8015M	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3050B	6010B	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3060A	7199	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3546	1625C	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3550B	8015B	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3550B	8015M	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3550B	8082	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3550B	8270C	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3550B	8270C SIM	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	5035	8015M	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	5035	8260B	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	5035	8260B SIM	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	8330	8330A	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	Gen Prep	9045M	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	METHOD	300.0	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	METHOD	314.0	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	METHOD	7471A	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	METHOD	8015B	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	METHOD	8015M	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	METHOD	8315A	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	METHOD	9012B	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	3050B	6010B	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	3050B	6020	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	3060A	7199	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	3550B	8081A	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	3550B	8082	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	3550B	8151A	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	3550B	8270C	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	3550B	8270C SIM	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	Gen Prep	9045M	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	METHOD	300.0	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	METHOD	314.0	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	METHOD	7471A	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3050B	6010B	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3050B	6020	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3060A	7199	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3546	1625C	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3550B	8015B	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3550B	8015M	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3550B	8082	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3550B	8270C	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3550B	8270C SIM	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	5035	8015M	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	5035	8260B	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	5035	8260B SIM	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	8330	8330A	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	Gen Prep	9045M	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	METHOD	300.0	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	METHOD	314.0	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	METHOD	7471A	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	METHOD	8015B	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	METHOD	8015M	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	METHOD	8315A	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	METHOD	9012B	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0DUP	P164946D272028B	DUP	METHOD	9012B	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0DUP	P164946D291300B	DUP	Gen Prep	9045M	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0MS	P164946R210016A	MS	5035	8260B	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0MS	P164946R272029B	MS	METHOD	9012B	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	3050B	6010B	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	3050B	6020	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	3060A	7199	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	3550B	8081A	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	3550B	8082	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	3550B	8151A	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	3550B	8270C	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	3550B	8270C SIM	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	Gen Prep	9045M	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	METHOD	300.0	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	METHOD	314.0	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	METHOD	6850	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	METHOD	7471A	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5MSD	P164948M241816A	MSD	METHOD	6850	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5MS	P164948R241809A	MS	METHOD	6850	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3050B	6010B	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3050B	6020	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3060A	7199	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3546	1625C	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3550B	8015B	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3550B	8015M	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3550B	8082	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3550B	8270C	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3550B	8270C SIM	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	5035	8015M	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	5035	8260B	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	5035	8260B SIM	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	8330	8330A	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	Gen Prep	9045M	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	METHOD	300.0	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	METHOD	314.0	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	METHOD	7471A	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	METHOD	8015B	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	METHOD	8015M	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	METHOD	8315A	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	METHOD	9012B	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	3005A	6010B	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	3020A	6020	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	3510C	8081A	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	3510C	8082	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	3510C	8270C	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	3510C	8270C SIM	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	5030B	8015M	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	5030B	8260B	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	5030B	8260B SIM	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	Gen Prep	300.0	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	Gen Prep	314.0	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	Gen Prep	7199	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	METHOD	7470A	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	METHOD	8151A	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	3050B	6010B	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	3050B	6020	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	3060A	7199	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	3550B	8081A	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	3550B	8082	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	3550B	8151A	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	3550B	8270C	IV

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	3550B	8270C SIM	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	Gen Prep	300.0	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	Gen Prep	9045M	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	METHOD	314.0	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	METHOD	7471A	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	3050B	6010B	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	3050B	6020	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	3060A	7199	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	3550B	8081A	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	3550B	8082	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	3550B	8151A	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	3550B	8270C	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	3550B	8270C SIM	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	Gen Prep	300.0	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	Gen Prep	9045M	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	METHOD	314.0	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	METHOD	7471A	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5DUP	P164953D270332B	DUP	Gen Prep	300.0	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5DUP	P164953D272024B	DUP	METHOD	314.0	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5MS	P164953R270346B	MS	Gen Prep	300.0	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5MS	P164953R272048B	MS	METHOD	314.0	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	3050B	6010B	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	3050B	6020	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	3060A	7199	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	3550B	8081A	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	3550B	8082	IV

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	3550B	8151A	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	3550B	8270C	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	3550B	8270C SIM	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	Gen Prep	9045M	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	METHOD	300.0	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	METHOD	314.0	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	METHOD	7471A	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	3050B	6010B	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	3050B	6020	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	3060A	7199	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	3550B	8081A	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	3550B	8082	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	3550B	8151A	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	3550B	8270C	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	3550B	8270C SIM	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	Gen Prep	9045M	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	METHOD	300.0	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	METHOD	314.0	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	METHOD	7471A	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	3050B	6010B	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	3050B	6020	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	3060A	7199	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	3550B	8082	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	3550B	8270C	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	3550B	8270C SIM	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	5035	8260B	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	5035	8260B SIM	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	Gen Prep	9045M	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	METHOD	300.0	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	METHOD	314.0	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	METHOD	7471A	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0DUP	P164947D291400A	DUP	Gen Prep	9045M	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	3050B	6010B	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	3050B	6020	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	3060A	7199	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	3550B	8081A	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	3550B	8082	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	3550B	8151A	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	3550B	8270C	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	3550B	8270C SIM	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	Gen Prep	300.0	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	Gen Prep	9045M	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	METHOD	314.0	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	METHOD	7471A	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	3050B	6010B	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	3050B	6020	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	3060A	7199	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	3550B	8081A	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	3550B	8082	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	3550B	8151A	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	3550B	8270C	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	3550B	8270C SIM	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	Gen Prep	300.0	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	Gen Prep	9045M	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	METHOD	314.0	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	METHOD	7471A	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3050B	6010B	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3050B	6020	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3060A	7199	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3546	1625C	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3550B	8015B	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3550B	8015M	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3550B	8082	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3550B	8270C	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3550B	8270C SIM	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	5035	8015M	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	5035	8260B	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	5035	8260B SIM	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	8330	8330A	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	Gen Prep	300.0	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	Gen Prep	9045M	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	METHOD	314.0	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	METHOD	7471A	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	METHOD	8015B	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	METHOD	8015M	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	METHOD	8315A	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	METHOD	9012B	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0D	P164957D291400B	DUP	Gen Prep	9045M	IV

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SED-026-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SED-027-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1	J	0.93	MDL	1.2	PQL	mg/Kg	J	Z, Q

Sample ID: SL-002-SA5C-SB-9.0-10.0

Collected: 12/14/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.1	J	0.96	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5C-SB-4.0-5.0

Collected: 12/14/2010 11:11:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.6	J	0.95	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-060-SA5C-SB-10.0-11.0

Collected: 12/14/2010 4:18:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.95	J	0.92	MDL	1.1	PQL	mg/Kg	J	Z, Q
Nitrate-NO3	1.3	J	0.92	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-128-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.85	U	0.85	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.84	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/23/2011 8:52:36 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: AQ

Sample ID: EB02-SA5B-121410

Collected: 12/14/2010 12:30:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	0.0533	J	0.0522	MDL	0.200	PQL	mg/L	J	Z

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SED-022-SIV-SD-0.0-0.5

Collected: 12/14/2010 10:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.54	J	0.944	MDL	5.31	PQL	mg/Kg	J	Z
LITHIUM	24.1		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	390		0.594	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	3120		19.1	MDL	53.1	PQL	mg/Kg	J	Q, A
SODIUM	79.9	J	39.6	MDL	106	PQL	mg/Kg	J	Z
TIN	2.34	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	0.900	J	0.891	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SED-023-SIV-SD-0.0-0.5

Collected: 12/14/2010 9:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.10	J	0.969	MDL	5.44	PQL	mg/Kg	J	Z
LITHIUM	22.7		0.24	MDL	2.2	PQL	mg/Kg	J	A
PHOSPHORUS	405		0.610	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	3290		19.6	MDL	54.4	PQL	mg/Kg	J	Q, A
SODIUM	67.3	J	40.6	MDL	109	PQL	mg/Kg	J	Z
TIN	2.38	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.16	J	0.914	MDL	5.44	PQL	mg/Kg	J	Z

Sample ID: SED-024-SIV-SD-0.0-0.5

Collected: 12/14/2010 11:16:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.73	J	1.00	MDL	5.62	PQL	mg/Kg	J	Z
LITHIUM	24.5		0.25	MDL	2.2	PQL	mg/Kg	J	A
PHOSPHORUS	434		0.630	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	3150		20.2	MDL	56.2	PQL	mg/Kg	J	Q, A
SODIUM	68.9	J	41.9	MDL	112	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/23/2011 8:52:36 AM

ADR version 1.3.0.71

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SED-024-SIV-SD-0.0-0.5

Collected: 12/14/2010 11:16:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.66	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.51	J	0.944	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SED-026-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.12	J	1.02	MDL	5.74	PQL	mg/Kg	J	Z
LITHIUM	25.7		0.25	MDL	2.3	PQL	mg/Kg	J	A
PHOSPHORUS	437		0.643	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	3830		20.7	MDL	57.4	PQL	mg/Kg	J	Q, A
SODIUM	112	J	42.8	MDL	115	PQL	mg/Kg	J	Z
TIN	2.97	J	1.15	MDL	11.5	PQL	mg/Kg	U	B

Sample ID: SED-027-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.15	J	1.03	MDL	5.79	PQL	mg/Kg	J	Z
LITHIUM	24.6		0.25	MDL	2.3	PQL	mg/Kg	J	A
PHOSPHORUS	446		0.648	MDL	11.6	PQL	mg/Kg	J	Q
POTASSIUM	3150		20.8	MDL	57.9	PQL	mg/Kg	J	Q, A
SODIUM	86.1	J	43.2	MDL	116	PQL	mg/Kg	J	Z
TIN	2.57	J	1.16	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	1.31	J	0.972	MDL	5.79	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA5C-SB-4.0-5.0

Collected: 12/14/2010 9:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.97	J	0.939	MDL	5.28	PQL	mg/Kg	J	Z
LITHIUM	22.8		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	330		0.591	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2520		19.0	MDL	52.8	PQL	mg/Kg	J	Q, A
SODIUM	95.4	J	39.4	MDL	106	PQL	mg/Kg	J	Z
TIN	2.76	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-002-SA5C-SB-9.0-10.0

Collected: 12/14/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.03	J	1.03	MDL	5.77	PQL	mg/Kg	J	Z
LITHIUM	27.6		0.25	MDL	2.3	PQL	mg/Kg	J	A
PHOSPHORUS	421		0.646	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	3910		20.8	MDL	57.7	PQL	mg/Kg	J	Q, A
TIN	3.01	J	1.15	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	5.23	J	0.970	MDL	5.77	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5C-SB-4.0-5.0

Collected: 12/14/2010 11:11:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.55	J	1.02	MDL	5.74	PQL	mg/Kg	J	Z
LITHIUM	28.2		0.25	MDL	2.3	PQL	mg/Kg	J	A
PHOSPHORUS	311		0.643	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	3660		20.7	MDL	57.4	PQL	mg/Kg	J	Q, A
TIN	2.90	J	1.15	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	3.75	J	0.964	MDL	5.74	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5C-SB-9.0-10.0

Collected: 12/14/2010 11:18:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LITHIUM	28.1		0.26	MDL	2.4	PQL	mg/Kg	J	A
PHOSPHORUS	468		0.666	MDL	11.9	PQL	mg/Kg	J	Q
POTASSIUM	4790		21.4	MDL	59.5	PQL	mg/Kg	J	Q, A
TIN	2.81	J	1.19	MDL	11.9	PQL	mg/Kg	U	B
Zirconium	4.89	J	1.00	MDL	5.95	PQL	mg/Kg	J	Z

Sample ID: SL-060-SA5C-SB-10.0-11.0

Collected: 12/14/2010 4:18:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.988	J	0.983	MDL	5.52	PQL	mg/Kg	J	Z
LITHIUM	31.9		0.24	MDL	2.2	PQL	mg/Kg	J	A
PHOSPHORUS	537		0.618	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	3500		19.9	MDL	55.2	PQL	mg/Kg	J	Q, A
TIN	2.92	J	1.10	MDL	11.0	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-125-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.74	J	0.921	MDL	5.18	PQL	mg/Kg	J	Z
LITHIUM	27.9		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	795		0.580	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	5670		18.6	MDL	51.8	PQL	mg/Kg	J	Q, A
SODIUM	89.2	J	38.6	MDL	104	PQL	mg/Kg	J	Z
TIN	2.99	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.36	J	0.870	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.45	J	0.925	MDL	5.19	PQL	mg/Kg	J	Z
LITHIUM	27.4		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	736		0.582	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	4480		18.7	MDL	51.9	PQL	mg/Kg	J	Q, A
SODIUM	100	J	38.8	MDL	104	PQL	mg/Kg	J	Z
TIN	2.93	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	4.40	J	0.873	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: SL-128-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.87	J	0.907	MDL	5.10	PQL	mg/Kg	J	Z
LITHIUM	25.0		0.22	MDL	2.0	PQL	mg/Kg	J	A
PHOSPHORUS	587		0.571	MDL	10.2	PQL	mg/Kg	J	Q
POTASSIUM	5080		18.4	MDL	51.0	PQL	mg/Kg	J	Q, A
SODIUM	78.0	J	38.0	MDL	102	PQL	mg/Kg	J	Z
TIN	3.05	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.38	J	0.857	MDL	5.10	PQL	mg/Kg	J	Z

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.49	J	0.904	MDL	5.08	PQL	mg/Kg	J	Z
LITHIUM	27.3		0.22	MDL	2.0	PQL	mg/Kg	J	A

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	740		0.569	MDL	10.2	PQL	mg/Kg	J	Q
POTASSIUM	4580		18.3	MDL	50.8	PQL	mg/Kg	J	Q, A
SODIUM	84.5	J	37.9	MDL	102	PQL	mg/Kg	J	Z
TIN	2.55	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.62	J	0.853	MDL	5.08	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA5C-SB-3.0-4.0

Collected: 12/14/2010 2:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.76	J	0.952	MDL	5.35	PQL	mg/Kg	J	Z
LITHIUM	19.6		0.24	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	131		0.599	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	1450		19.3	MDL	53.5	PQL	mg/Kg	J	Q, A
TIN	2.61	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.03	J	0.898	MDL	5.35	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: AQ

Sample ID: EB02-SA5B-121410

Collected: 12/14/2010 12:30:00

Analysis Type: REA5

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000075	J	0.000052	MDL	0.0010	PQL	mg/L	J	Z

Sample ID: EB02-SA5B-121410

Collected: 12/14/2010 12:30:00

Analysis Type: REA7

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.00032	J	0.00025	MDL	0.00050	PQL	mg/L	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-022-SIV-SD-0.0-0.5

Collected: 12/14/2010 10:08:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	10.5		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, E, A

Sample ID: SED-022-SIV-SD-0.0-0.5

Collected: 12/14/2010 10:08:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.184	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SED-022-SIV-SD-0.0-0.5

Collected: 12/14/2010 10:08:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.611		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SED-022-SIV-SD-0.0-0.5

Collected: 12/14/2010 10:08:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	110		0.115	MDL	0.424	PQL	mg/Kg	J	E, A

Sample ID: SED-022-SIV-SD-0.0-0.5

Collected: 12/14/2010 10:08:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.246		0.0637	MDL	0.212	PQL	mg/Kg	U	B
ARSENIC	5.23		0.0637	MDL	0.424	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.438		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.358		0.0382	MDL	0.106	PQL	mg/Kg	UJ	Q, B
CHROMIUM	22.4		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E
COBALT	8.04		0.0212	MDL	0.106	PQL	mg/Kg	J	Q
COPPER	9.68		0.0700	MDL	0.424	PQL	mg/Kg	J	Q, E
NICKEL	12.6		0.106	MDL	0.424	PQL	mg/Kg	J	Q, E
SILVER	0.0842	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.377		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	44.8		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	99.0		0.594	MDL	3.18	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-023-SIV-SD-0.0-0.5

Collected: 12/14/2010 9:19:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	14.2		0.0115	MDL	0.222	PQL	mg/Kg	J	Q, E, A

Sample ID: SED-023-SIV-SD-0.0-0.5

Collected: 12/14/2010 9:19:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.313	J	0.0444	MDL	0.444	PQL	mg/Kg	J	Z

Sample ID: SED-023-SIV-SD-0.0-0.5

Collected: 12/14/2010 9:19:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.678		0.0555	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SED-023-SIV-SD-0.0-0.5

Collected: 12/14/2010 9:19:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	122		0.120	MDL	0.444	PQL	mg/Kg	J	E, A

Sample ID: SED-023-SIV-SD-0.0-0.5

Collected: 12/14/2010 9:19:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.235		0.0666	MDL	0.222	PQL	mg/Kg	U	B
ARSENIC	6.07		0.0666	MDL	0.444	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.472		0.0178	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	0.216		0.0400	MDL	0.111	PQL	mg/Kg	UJ	Q, B
CHROMIUM	23.2		0.133	MDL	0.444	PQL	mg/Kg	J	Q, E
COBALT	7.05		0.0222	MDL	0.111	PQL	mg/Kg	J	Q
COPPER	10.5		0.0733	MDL	0.444	PQL	mg/Kg	J	Q, E
NICKEL	14.0		0.111	MDL	0.444	PQL	mg/Kg	J	Q, E
SILVER	0.0467	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.357		0.0333	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	48.9		0.0244	MDL	0.111	PQL	mg/Kg	J	Q, E
ZINC	93.4		0.622	MDL	3.33	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-024-SIV-SD-0.0-0.5

Collected: 12/14/2010 11:16:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.206	J	0.0445	MDL	0.445	PQL	mg/Kg	J	Z

Sample ID: SED-024-SIV-SD-0.0-0.5

Collected: 12/14/2010 11:16:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.570		0.0557	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SED-024-SIV-SD-0.0-0.5

Collected: 12/14/2010 11:16:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	99.6		0.120	MDL	0.445	PQL	mg/Kg	J	E, A

Sample ID: SED-024-SIV-SD-0.0-0.5

Collected: 12/14/2010 11:16:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.194	J	0.0668	MDL	0.223	PQL	mg/Kg	U	B
ARSENIC	4.96		0.0668	MDL	0.445	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.455		0.0178	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	0.251		0.0401	MDL	0.111	PQL	mg/Kg	UJ	Q, B
CHROMIUM	21.8		0.134	MDL	0.445	PQL	mg/Kg	J	Q, E
COBALT	7.26		0.0223	MDL	0.111	PQL	mg/Kg	J	Q
COPPER	10.3		0.0735	MDL	0.445	PQL	mg/Kg	J	Q, E
LEAD	16.7		0.0116	MDL	0.223	PQL	mg/Kg	J	Q, E, A
NICKEL	14.2		0.111	MDL	0.445	PQL	mg/Kg	J	Q, E
SILVER	0.0600	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.300		0.0334	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	48.1		0.0245	MDL	0.111	PQL	mg/Kg	J	Q, E
ZINC	82.8		0.623	MDL	3.34	PQL	mg/Kg	J	E, A

Sample ID: SED-026-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:22:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.260		0.0413	MDL	0.115	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-026-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:22:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.177	J	0.0459	MDL	0.459	PQL	mg/Kg	J	Z

Sample ID: SED-026-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:22:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.940		0.0574	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SED-026-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:22:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	150		0.124	MDL	0.459	PQL	mg/Kg	J	E, A

Sample ID: SED-026-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:22:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.128	J	0.0689	MDL	0.230	PQL	mg/Kg	U	B
ARSENIC	6.61		0.0689	MDL	0.459	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.666		0.0184	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	24.3		0.138	MDL	0.459	PQL	mg/Kg	J	Q, E
COBALT	7.27		0.0230	MDL	0.115	PQL	mg/Kg	J	Q
COPPER	11.3		0.0758	MDL	0.459	PQL	mg/Kg	J	Q, E
LEAD	19.5		0.0119	MDL	0.230	PQL	mg/Kg	J	Q, E, A
NICKEL	15.0		0.115	MDL	0.459	PQL	mg/Kg	J	Q, E
SILVER	0.575		0.0138	MDL	0.115	PQL	mg/Kg	J	Q
THALLIUM	0.465		0.0345	MDL	0.115	PQL	mg/Kg	J	Q
VANADIUM	46.8		0.0253	MDL	0.115	PQL	mg/Kg	J	Q, E
ZINC	105		0.643	MDL	3.45	PQL	mg/Kg	J	E, A

Sample ID: SED-027-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:59:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.225	J	0.0454	MDL	0.454	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-027-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:59:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.731		0.0567	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SED-027-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:59:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	126		0.123	MDL	0.454	PQL	mg/Kg	J	E, A

Sample ID: SED-027-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:59:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.164	J	0.0681	MDL	0.227	PQL	mg/Kg	U	B
ARSENIC	6.17		0.0681	MDL	0.454	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.500		0.0182	MDL	0.113	PQL	mg/Kg	J	Q
CADMIUM	0.259		0.0408	MDL	0.113	PQL	mg/Kg	UJ	Q, B
CHROMIUM	26.8		0.136	MDL	0.454	PQL	mg/Kg	J	Q, E
COBALT	7.14		0.0227	MDL	0.113	PQL	mg/Kg	J	Q
COPPER	10.6		0.0749	MDL	0.454	PQL	mg/Kg	J	Q, E
LEAD	16.2		0.0118	MDL	0.227	PQL	mg/Kg	J	Q, E, A
NICKEL	15.8		0.113	MDL	0.454	PQL	mg/Kg	J	Q, E
SILVER	0.146		0.0136	MDL	0.113	PQL	mg/Kg	J	Q
THALLIUM	0.347		0.0340	MDL	0.113	PQL	mg/Kg	J	Q
VANADIUM	54.9		0.0250	MDL	0.113	PQL	mg/Kg	J	Q, E
ZINC	88.1		0.635	MDL	3.40	PQL	mg/Kg	J	E, A

Sample ID: SL-002-SA5C-SB-4.0-5.0

Collected: 12/14/2010 9:42:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.101	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA5C-SB-4.0-5.0

Collected: 12/14/2010 9:42:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.470		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-002-SA5C-SB-4.0-5.0

Collected: 12/14/2010 9:42:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	63.6		0.114	MDL	0.422	PQL	mg/Kg	J	E, A

Sample ID: SL-002-SA5C-SB-4.0-5.0

Collected: 12/14/2010 9:42:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.160	J	0.0633	MDL	0.211	PQL	mg/Kg	U	B
ARSENIC	5.59		0.0633	MDL	0.422	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.531		0.0169	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.0891	J	0.0380	MDL	0.106	PQL	mg/Kg	UJ	Q, B
CHROMIUM	14.1		0.127	MDL	0.422	PQL	mg/Kg	J	Q, E
COBALT	5.63		0.0211	MDL	0.106	PQL	mg/Kg	J	Q
COPPER	5.77		0.0697	MDL	0.422	PQL	mg/Kg	J	Q, E
LEAD	4.71		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E, A
NICKEL	8.46		0.106	MDL	0.422	PQL	mg/Kg	J	Q, E
SILVER	0.0148	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.356		0.0317	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	29.5		0.0232	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	59.4		0.591	MDL	3.17	PQL	mg/Kg	J	E, A

Sample ID: SL-002-SA5C-SB-9.0-10.0

Collected: 12/14/2010 9:50:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.186	J	0.0471	MDL	0.471	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA5C-SB-9.0-10.0

Collected: 12/14/2010 9:50:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.624		0.0588	MDL	0.118	PQL	mg/Kg	J	Q

Sample ID: SL-002-SA5C-SB-9.0-10.0

Collected: 12/14/2010 9:50:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	160		0.127	MDL	0.471	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-002-SA5C-SB-9.0-10.0

Collected: 12/14/2010 9:50:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.72		0.0706	MDL	0.471	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.902		0.0188	MDL	0.118	PQL	mg/Kg	J	Q
CADMIUM	0.454		0.0424	MDL	0.118	PQL	mg/Kg	J	Q
CHROMIUM	41.1		0.141	MDL	0.471	PQL	mg/Kg	J	Q, E
COBALT	9.79		0.0235	MDL	0.118	PQL	mg/Kg	J	Q
COPPER	16.7		0.0777	MDL	0.471	PQL	mg/Kg	J	Q, E
LEAD	13.1		0.0122	MDL	0.235	PQL	mg/Kg	J	Q, E, A
NICKEL	19.9		0.118	MDL	0.471	PQL	mg/Kg	J	Q, E
SILVER	0.0442	J	0.0141	MDL	0.118	PQL	mg/Kg	J	Z, Q
THALLIUM	0.381		0.0353	MDL	0.118	PQL	mg/Kg	J	Q
VANADIUM	76.0		0.0259	MDL	0.118	PQL	mg/Kg	J	Q, E
ZINC	80.0		0.659	MDL	3.53	PQL	mg/Kg	J	E, A

Sample ID: SL-004-SA5C-SB-4.0-5.0

Collected: 12/14/2010 11:11:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0746	J	0.0473	MDL	0.473	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5C-SB-4.0-5.0

Collected: 12/14/2010 11:11:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.470		0.0591	MDL	0.118	PQL	mg/Kg	J	Q

Sample ID: SL-004-SA5C-SB-4.0-5.0

Collected: 12/14/2010 11:11:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	160		0.128	MDL	0.473	PQL	mg/Kg	J	E, A

Sample ID: SL-004-SA5C-SB-4.0-5.0

Collected: 12/14/2010 11:11:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.70		0.0709	MDL	0.473	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.928		0.0189	MDL	0.118	PQL	mg/Kg	J	Q
CADMIUM	0.237		0.0425	MDL	0.118	PQL	mg/Kg	UJ	Q, B
CHROMIUM	39.0		0.142	MDL	0.473	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-004-SA5C-SB-4.0-5.0

Collected: 12/14/2010 11:11:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	9.82		0.0236	MDL	0.118	PQL	mg/Kg	J	Q
COPPER	15.8		0.0780	MDL	0.473	PQL	mg/Kg	J	Q, E
LEAD	12.5		0.0123	MDL	0.236	PQL	mg/Kg	J	Q, E, A
NICKEL	17.8		0.118	MDL	0.473	PQL	mg/Kg	J	Q, E
SILVER	0.0893	J	0.0142	MDL	0.118	PQL	mg/Kg	J	Z, Q
THALLIUM	0.422		0.0354	MDL	0.118	PQL	mg/Kg	J	Q
VANADIUM	71.3		0.0260	MDL	0.118	PQL	mg/Kg	J	Q, E
ZINC	70.9		0.662	MDL	3.54	PQL	mg/Kg	J	E, A

Sample ID: SL-004-SA5C-SB-9.0-10.0

Collected: 12/14/2010 11:18:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.252	J	0.0467	MDL	0.467	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5C-SB-9.0-10.0

Collected: 12/14/2010 11:18:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.801		0.0583	MDL	0.117	PQL	mg/Kg	J	Q

Sample ID: SL-004-SA5C-SB-9.0-10.0

Collected: 12/14/2010 11:18:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	183		0.126	MDL	0.467	PQL	mg/Kg	J	E, A

Sample ID: SL-004-SA5C-SB-9.0-10.0

Collected: 12/14/2010 11:18:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.20		0.0700	MDL	0.467	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.889		0.0187	MDL	0.117	PQL	mg/Kg	J	Q
CADMIUM	0.454		0.0420	MDL	0.117	PQL	mg/Kg	J	Q
CHROMIUM	43.0		0.140	MDL	0.467	PQL	mg/Kg	J	Q, E
COBALT	10.0		0.0233	MDL	0.117	PQL	mg/Kg	J	Q
COPPER	17.9		0.0770	MDL	0.467	PQL	mg/Kg	J	Q, E
LEAD	14.0		0.0121	MDL	0.233	PQL	mg/Kg	J	Q, E, A
NICKEL	20.3		0.117	MDL	0.467	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-004-SA5C-SB-9.0-10.0

Collected: 12/14/2010 11:18:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0645	J	0.0140	MDL	0.117	PQL	mg/Kg	J	Z, Q
THALLIUM	0.439		0.0350	MDL	0.117	PQL	mg/Kg	J	Q
VANADIUM	79.2		0.0257	MDL	0.117	PQL	mg/Kg	J	Q, E
ZINC	96.1		0.653	MDL	3.50	PQL	mg/Kg	J	E, A

Sample ID: SL-060-SA5C-SB-10.0-11.0

Collected: 12/14/2010 4:18:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.268	J	0.0442	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-060-SA5C-SB-10.0-11.0

Collected: 12/14/2010 4:18:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.12		0.0552	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-060-SA5C-SB-10.0-11.0

Collected: 12/14/2010 4:18:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	183		0.119	MDL	0.442	PQL	mg/Kg	J	E, A

Sample ID: SL-060-SA5C-SB-10.0-11.0

Collected: 12/14/2010 4:18:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	12.5		0.0662	MDL	0.442	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.913		0.0177	MDL	0.110	PQL	mg/Kg	J	Q
CADMIUM	0.220		0.0397	MDL	0.110	PQL	mg/Kg	UJ	Q, B
CHROMIUM	37.4		0.132	MDL	0.442	PQL	mg/Kg	J	Q, E
COBALT	11.7		0.0221	MDL	0.110	PQL	mg/Kg	J	Q
COPPER	19.2		0.0729	MDL	0.442	PQL	mg/Kg	J	Q, E
LEAD	12.3		0.0115	MDL	0.221	PQL	mg/Kg	J	Q, E, A
NICKEL	23.8		0.110	MDL	0.442	PQL	mg/Kg	J	Q, E
SILVER	0.0336	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.657		0.0331	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	71.0		0.0243	MDL	0.110	PQL	mg/Kg	J	Q, E
ZINC	119		0.618	MDL	3.31	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-125-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	14.3		0.0108	MDL	0.207	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-125-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.210	J	0.0414	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.26		0.0518	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-125-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.112	MDL	0.414	PQL	mg/Kg	J	E, A

Sample ID: SL-125-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	9.40		0.0621	MDL	0.414	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.893		0.0166	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.489		0.0373	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	37.2		0.124	MDL	0.414	PQL	mg/Kg	J	Q, E
COBALT	9.90		0.0207	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	21.3		0.0683	MDL	0.414	PQL	mg/Kg	J	Q, E
NICKEL	23.4		0.104	MDL	0.414	PQL	mg/Kg	J	Q, E
SILVER	0.414		0.0124	MDL	0.104	PQL	mg/Kg	J	Q
THALLIUM	0.522		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	63.6		0.0228	MDL	0.104	PQL	mg/Kg	J	Q, E
ZINC	146		0.580	MDL	3.11	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-126-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:20:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	16.5		0.0108	MDL	0.208	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-126-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:20:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.169	J	0.0416	MDL	0.416	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:20:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.11		0.0519	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-126-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:20:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	115		0.112	MDL	0.416	PQL	mg/Kg	J	E, A

Sample ID: SL-126-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:20:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	9.68		0.0623	MDL	0.416	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.852		0.0166	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.387		0.0374	MDL	0.104	PQL	mg/Kg	UJ	Q, B
CHROMIUM	34.5		0.125	MDL	0.416	PQL	mg/Kg	J	Q, E
COBALT	9.55		0.0208	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	19.2		0.0686	MDL	0.416	PQL	mg/Kg	J	Q, E
NICKEL	20.6		0.104	MDL	0.416	PQL	mg/Kg	J	Q, E
SILVER	0.342		0.0125	MDL	0.104	PQL	mg/Kg	J	Q
THALLIUM	0.435		0.0312	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	60.5		0.0229	MDL	0.104	PQL	mg/Kg	J	Q, E
ZINC	140		0.582	MDL	3.12	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-128-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:35:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.307		0.0378	MDL	0.105	PQL	mg/Kg	UJ	Q, B
LEAD	16.6		0.0109	MDL	0.210	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-128-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:35:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.225	J	0.0420	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-128-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:35:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.16		0.0525	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-128-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:35:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	128		0.113	MDL	0.420	PQL	mg/Kg	J	E, A

Sample ID: SL-128-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.233		0.0630	MDL	0.210	PQL	mg/Kg	U	B
ARSENIC	8.40		0.0630	MDL	0.420	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.838		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	46.1		0.126	MDL	0.420	PQL	mg/Kg	J	Q, E
COBALT	10.3		0.0210	MDL	0.105	PQL	mg/Kg	J	Q
COPPER	19.9		0.0693	MDL	0.420	PQL	mg/Kg	J	Q, E
NICKEL	27.5		0.105	MDL	0.420	PQL	mg/Kg	J	Q, E
SILVER	0.0991	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.479		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	59.1		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, E
ZINC	118		0.588	MDL	3.15	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	16.0		0.0109	MDL	0.209	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.242	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.23		0.0523	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.113	MDL	0.418	PQL	mg/Kg	J	E, A

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	10.9		0.0627	MDL	0.418	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.03		0.0167	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.468		0.0376	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	38.0		0.125	MDL	0.418	PQL	mg/Kg	J	Q, E
COBALT	10.4		0.0209	MDL	0.105	PQL	mg/Kg	J	Q
COPPER	21.9		0.0690	MDL	0.418	PQL	mg/Kg	J	Q, E
NICKEL	22.6		0.105	MDL	0.418	PQL	mg/Kg	J	Q, E
SILVER	0.133		0.0125	MDL	0.105	PQL	mg/Kg	J	Q
THALLIUM	0.491		0.0314	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	64.6		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, E
ZINC	157		0.585	MDL	3.14	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-140-SA5C-SB-3.0-4.0

Collected: 12/14/2010 2:28:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0532	J	0.0441	MDL	0.441	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA5C-SB-3.0-4.0

Collected: 12/14/2010 2:28:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.412		0.0551	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-140-SA5C-SB-3.0-4.0

Collected: 12/14/2010 2:28:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	132		0.119	MDL	0.441	PQL	mg/Kg	J	E, A

Sample ID: SL-140-SA5C-SB-3.0-4.0

Collected: 12/14/2010 2:28:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.169	J	0.0661	MDL	0.220	PQL	mg/Kg	U	B
ARSENIC	6.88		0.0661	MDL	0.441	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.666		0.0176	MDL	0.110	PQL	mg/Kg	J	Q
CADMIUM	0.0533	J	0.0396	MDL	0.110	PQL	mg/Kg	UJ	Q, B
CHROMIUM	24.6		0.132	MDL	0.441	PQL	mg/Kg	J	Q, E
COBALT	4.65		0.0220	MDL	0.110	PQL	mg/Kg	J	Q
COPPER	8.83		0.0727	MDL	0.441	PQL	mg/Kg	J	Q, E
LEAD	8.73		0.0115	MDL	0.220	PQL	mg/Kg	J	Q, E, A
NICKEL	11.0		0.110	MDL	0.441	PQL	mg/Kg	J	Q, E
SILVER	0.0480	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.352		0.0330	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	50.1		0.0242	MDL	0.110	PQL	mg/Kg	J	Q, E
ZINC	49.0		0.617	MDL	3.30	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-002-SA5C-SB-4.0-5.0

Collected: 12/14/2010 9:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA5C-SB-9.0-10.0

Collected: 12/14/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SED-022-SIV-SD-0.0-0.5

Collected: 12/14/2010 10:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0220	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SED-023-SIV-SD-0.0-0.5

Collected: 12/14/2010 9:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0082	J	0.0031	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SED-024-SIV-SD-0.0-0.5

Collected: 12/14/2010 11:16:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0121	J	0.0033	MDL	0.114	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SED-027-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0513	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA5C-SB-9.0-10.0

Collected: 12/14/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0046	J	0.0034	MDL	0.119	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5C-SB-4.0-5.0

Collected: 12/14/2010 11:11:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0138	J	0.0033	MDL	0.115	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5C-SB-9.0-10.0

Collected: 12/14/2010 11:18:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0068	J	0.0034	MDL	0.120	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0113	J	0.0029	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0113	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-128-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0117	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0101	J	0.0029	MDL	0.103	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-140-SA5C-SB-3.0-4.0

Collected: 12/14/2010 2:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0063	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: SL-002-SA5C-SB-4.0-5.0

Collected: 12/14/2010 9:42:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Propylene glycol	5.3	U	5.3	MDL	13	PQL	mg/Kg	UJ	L

Sample ID: SL-002-SA5C-SB-4.0-5.0

Collected: 12/14/2010 9:42:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.59	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.74	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA5C-SB-9.0-10.0

Collected: 12/14/2010 9:50:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Propylene glycol	6.0	U	6.0	MDL	15	PQL	mg/Kg	UJ	L

Sample ID: SL-002-SA5C-SB-9.0-10.0

Collected: 12/14/2010 9:50:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.96	J	0.48	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5C-SB-4.0-5.0

Collected: 12/14/2010 11:11:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Propylene glycol	6.0	U	6.0	MDL	15	PQL	mg/Kg	UJ	L

Sample ID: SL-004-SA5C-SB-4.0-5.0

Collected: 12/14/2010 11:11:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.1	J	0.48	MDL	1.4	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA								
Method:	8015M	Matrix:	SO						

Sample ID: SL-004-SA5C-SB-9.0-10.0

Collected: 12/14/2010 11:18:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Propylene glycol	6.0	U	6.0	MDL	15	PQL	mg/Kg	UJ	L

Sample ID: SL-060-SA5C-SB-10.0-11.0

Collected: 12/14/2010 4:18:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Propylene glycol	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	L

Method Category:	SVOA								
Method:	8081A	Matrix:	AQ						

Sample ID: EB02-SA5B-121410

Collected: 12/14/2010 12:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.0048	U	0.0048	MDL	0.019	PQL	ug/L	UJ	C
ENDOSULFAN II	0.014	U	0.014	MDL	0.019	PQL	ug/L	UJ	C

Method Category:	SVOA								
Method:	8081A	Matrix:	SO						

Sample ID: SED-022-SIV-SD-0.0-0.5

Collected: 12/14/2010 10:08:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.96	J	0.71	MDL	3.7	PQL	ug/Kg	J	Z
4,4'-DDT	1.6	J	0.71	MDL	3.7	PQL	ug/Kg	J	Z, *XIII
DELTA-BHC	2.6		0.39	MDL	1.8	PQL	ug/Kg	J	*XIII
ENDRIN ALDEHYDE	1.8	J	0.71	MDL	3.7	PQL	ug/Kg	J	Z, *XIII
gamma-BHC (Lindane)	2.7		0.37	MDL	1.8	PQL	ug/Kg	J	*XIII

Sample ID: SED-023-SIV-SD-0.0-0.5

Collected: 12/14/2010 9:19:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.26	J	0.20	MDL	0.93	PQL	ug/Kg	J	Z, *XIII
HEPTACHLOR	0.56	J	0.34	MDL	0.93	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SED-024-SIV-SD-0.0-0.5

Collected: 12/14/2010 11:16:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.93	J	0.21	MDL	0.95	PQL	ug/Kg	J	Z, *XIII
HEPTACHLOR	0.39	J	0.34	MDL	0.95	PQL	ug/Kg	J	Z, *XIII

Sample ID: SED-026-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:22:00

Analysis Type: DL-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	4.4		0.38	MDL	2.0	PQL	ug/Kg	J	C

Sample ID: SED-026-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	1.9	U	1.9	MDL	1.9	PQL	ug/Kg	UJ	C
ALPHA-BHC	0.066	J	0.039	MDL	0.19	PQL	ug/Kg	J	Z, *XIII
DIELDRIN	0.87	U	0.87	MDL	0.87	PQL	ug/Kg	UJ	C
ENDOSULFAN I	0.051	U	0.051	MDL	0.19	PQL	ug/Kg	UJ	C
ENDOSULFAN II	0.092	U	0.092	MDL	0.39	PQL	ug/Kg	UJ	C
ENDOSULFAN SULFATE	0.44	U	0.44	MDL	0.44	PQL	ug/Kg	UJ	C
ENDRIN	0.077	U	0.077	MDL	0.39	PQL	ug/Kg	UJ	C
ENDRIN ALDEHYDE	0.64	U	0.64	MDL	0.64	PQL	ug/Kg	UJ	C
ENDRIN KETONE	0.077	U	0.077	MDL	0.39	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.16	U	0.16	MDL	0.19	PQL	ug/Kg	UJ	C
METHOXYCHLOR	0.49	U	0.49	MDL	1.9	PQL	ug/Kg	UJ	C
MIREX	0.42	U	0.42	MDL	0.42	PQL	ug/Kg	UJ	C

Sample ID: SED-027-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:59:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.69	U	0.69	MDL	0.69	PQL	ug/Kg	UJ	C
4,4'-DDT	2.2	U	2.2	MDL	2.2	PQL	ug/Kg	UJ	C
DIELDRIN	0.22	U	0.22	MDL	0.39	PQL	ug/Kg	UJ	C
ENDOSULFAN I	0.051	U	0.051	MDL	0.19	PQL	ug/Kg	UJ	C
ENDOSULFAN II	0.13	U	0.13	MDL	0.39	PQL	ug/Kg	UJ	C
ENDOSULFAN SULFATE	0.49		0.076	MDL	0.39	PQL	ug/Kg	J	C
ENDRIN	0.076	U	0.076	MDL	0.39	PQL	ug/Kg	UJ	C
ENDRIN ALDEHYDE	0.61	U	0.61	MDL	0.61	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SED-027-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:59:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN KETONE	0.076	U	0.076	MDL	0.39	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.39	U	0.39	MDL	0.39	PQL	ug/Kg	UJ	C
METHOXYCHLOR	1.3	U	1.3	MDL	1.9	PQL	ug/Kg	UJ	C
MIREX	0.61	U	0.61	MDL	0.61	PQL	ug/Kg	UJ	C

Sample ID: SL-126-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.12	J	0.063	MDL	0.17	PQL	ug/Kg	J	Z
DELTA-BHC	0.042	J	0.038	MDL	0.17	PQL	ug/Kg	J	Z, *XIII
gamma-BHC (Lindane)	0.065	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-128-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	2.4	U	2.4	MDL	2.4	PQL	ug/Kg	UJ	C
4,4'-DDT	0.90	U	0.90	MDL	0.90	PQL	ug/Kg	UJ	C
DIELDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	C
ENDOSULFAN I	0.047	U	0.047	MDL	0.18	PQL	ug/Kg	UJ	C
ENDOSULFAN II	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	C
ENDOSULFAN SULFATE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	C
ENDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	C
ENDRIN ALDEHYDE	0.31	U	0.31	MDL	0.36	PQL	ug/Kg	UJ	C
ENDRIN KETONE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.12	U	0.12	MDL	0.18	PQL	ug/Kg	UJ	C
METHOXYCHLOR	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	C
MIREX	0.26	U	0.26	MDL	0.36	PQL	ug/Kg	UJ	C

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: DL-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.99	J	0.70	MDL	3.6	PQL	ug/Kg	J	Z
4,4'-DDT	7.9		0.70	MDL	3.6	PQL	ug/Kg	J	C, M
DIELDRIN	1.0	J	0.70	MDL	3.6	PQL	ug/Kg	J	Z, C, *XIII
ENDOSULFAN I	0.46	U	0.46	MDL	1.8	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: DL-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.70	U	0.70	MDL	3.6	PQL	ug/Kg	UJ	C
ENDOSULFAN SULFATE	1.8	J	0.70	MDL	3.6	PQL	ug/Kg	J	Z, C
ENDRIN	0.70	U	0.70	MDL	3.6	PQL	ug/Kg	UJ	C
ENDRIN ALDEHYDE	0.86	J	0.70	MDL	3.6	PQL	ug/Kg	J	Z, C, *XIII
ENDRIN KETONE	0.70	U	0.70	MDL	3.6	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	C
METHOXYCHLOR	3.6	U	3.6	MDL	18	PQL	ug/Kg	UJ	C
MIREX	0.70	U	0.70	MDL	3.6	PQL	ug/Kg	UJ	C

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.065	J	0.063	MDL	0.18	PQL	ug/Kg	J	Z
DELTA-BHC	0.093	J	0.038	MDL	0.18	PQL	ug/Kg	J	Z, *XIII
gamma-BHC (Lindane)	0.058	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z, *XIII

Method Category: SVOA

Method: 8082

Matrix: AQ

Sample ID: EB02-SA5B-121410

Collected: 12/14/2010 12:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	0.096	U	0.096	MDL	0.48	PQL	ug/L	UJ	L
Aroclor 5442	0.096	U	0.096	MDL	0.48	PQL	ug/L	UJ	L
Aroclor 5460	0.096	U	0.096	MDL	0.48	PQL	ug/L	UJ	L

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SED-022-SIV-SD-0.0-0.5

Collected: 12/14/2010 10:08:00

Analysis Type: RES

Dilution: 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	22	U	22	MDL	71	PQL	ug/Kg	UJ	L
Aroclor 5442	22	U	22	MDL	71	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA								
Method:	8082	Matrix:	SO						

Sample ID: SED-022-SIV-SD-0.0-0.5

Collected: 12/14/2010 10:08:00

Analysis Type: RES

Dilution: 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	22	U	22	MDL	71	PQL	ug/Kg	UJ	L

Sample ID: SED-023-SIV-SD-0.0-0.5

Collected: 12/14/2010 9:19:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.4	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S, *XIII
AROCLOR 1260	0.70	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S, *XIII
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SED-024-SIV-SD-0.0-0.5

Collected: 12/14/2010 11:16:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	2.4		0.38	MDL	1.9	PQL	ug/Kg	J	S, *XIII
AROCLOR 1260	1.5	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, S, *XIII
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	3.1	J	1.1	MDL	3.8	PQL	ug/Kg	J	Z, S, L

Sample ID: SED-026-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	17		0.77	MDL	3.9	PQL	ug/Kg	J	S
AROCLOR 1254	18		0.77	MDL	3.9	PQL	ug/Kg	J	S, *XIII
AROCLOR 1260	12		0.77	MDL	3.9	PQL	ug/Kg	J	S
Aroclor 5432	2.3	U	2.3	MDL	7.7	PQL	ug/Kg	UJ	L
Aroclor 5442	2.3	U	2.3	MDL	7.7	PQL	ug/Kg	UJ	L
Aroclor 5460	22		2.3	MDL	7.7	PQL	ug/Kg	J	S, L

Sample ID: SED-027-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:59:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	11		0.76	MDL	3.9	PQL	ug/Kg	J	S, *XIII
Aroclor 5432	2.3	U	2.3	MDL	7.6	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SED-027-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:59:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	2.3	U	2.3	MDL	7.6	PQL	ug/Kg	UJ	L
Aroclor 5460	3.6	J	2.3	MDL	7.6	PQL	ug/Kg	J	Z, S, L

Sample ID: SL-002-SA5C-SB-4.0-5.0

Collected: 12/14/2010 9:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SL-002-SA5C-SB-9.0-10.0

Collected: 12/14/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	4.0	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	4.0	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	4.0	PQL	ug/Kg	UJ	L

Sample ID: SL-004-SA5C-SB-4.0-5.0

Collected: 12/14/2010 11:11:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L

Sample ID: SL-004-SA5C-SB-9.0-10.0

Collected: 12/14/2010 11:18:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.66	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5432	1.2	U	1.2	MDL	4.0	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	4.0	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	4.0	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-060-SA5C-SB-10.0-11.0

Collected: 12/14/2010 4:18:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOLOR 1254	1.2	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z, S
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L

Sample ID: SL-125-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOLOR 1254	21		0.35	MDL	1.8	PQL	ug/Kg	J	S, *XIII
AROCOLOR 1260	3.1		0.35	MDL	1.8	PQL	ug/Kg	J	S
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	22		1.1	MDL	3.5	PQL	ug/Kg	J	S, L

Sample ID: SL-126-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOLOR 1260	0.50	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, S, *XIII
Aroclor 5432	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SL-128-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	9.8		1.1	MDL	3.5	PQL	ug/Kg	J	L

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	11	U	11	MDL	35	PQL	ug/Kg	UJ	L
Aroclor 5442	11	U	11	MDL	35	PQL	ug/Kg	UJ	L
Aroclor 5460	18	J	11	MDL	35	PQL	ug/Kg	J	Z, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-140-SA5C-SB-3.0-4.0

Collected: 12/14/2010 2:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8151A

Matrix: AQ

Sample ID: EB02-SA5B-121410

Collected: 12/14/2010 12:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.0097	U	0.0097	MDL	0.049	PQL	ug/L	UJ	C
DALAPON	0.24	U	0.24	MDL	1.2	PQL	ug/L	UJ	C, C
DICHLOROPROP	0.16	U	0.16	MDL	0.49	PQL	ug/L	UJ	C
DINOSEB	0.097	U	0.097	MDL	0.49	PQL	ug/L	UJ	C

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SED-022-SIV-SD-0.0-0.5

Collected: 12/14/2010 10:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.38		0.089	MDL	0.18	PQL	ug/Kg	J	S, *IX
DALAPON	4.8	U	4.8	MDL	9.7	PQL	ug/Kg	UJ	C, C
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L
MCPA	1800		82	MDL	270	PQL	ug/Kg	J	S, C

Sample ID: SED-023-SIV-SD-0.0-0.5

Collected: 12/14/2010 9:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.9	U	4.9	MDL	10	PQL	ug/Kg	UJ	C, C
DICAMBA	0.69	J	0.45	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L
MCPA	85	U	85	MDL	280	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8151A	Matrix:	SO

Sample ID: SED-024-SIV-SD-0.0-0.5

Collected: 12/14/2010 11:16:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	5.0	U	5.0	MDL	10	PQL	ug/Kg	UJ	C, C
DICAMBA	1.0	J	0.46	MDL	1.4	PQL	ug/Kg	J	Z
DINOSEB	0.92	U	0.92	MDL	2.8	PQL	ug/Kg	R	L
MCPA	87	U	87	MDL	290	PQL	ug/Kg	UJ	C

Sample ID: SED-026-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	5.1	U	5.1	MDL	10	PQL	ug/Kg	UJ	C, C
DICAMBA	0.57	J	0.46	MDL	1.4	PQL	ug/Kg	J	Z, S, *IX
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L
MCPA	1200		88	MDL	290	PQL	ug/Kg	J	S, C

Sample ID: SED-027-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	5.1	U	5.1	MDL	10	PQL	ug/Kg	UJ	C, C
DICAMBA	1.3	J	0.46	MDL	1.4	PQL	ug/Kg	J	Z
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L
MCPA	240	U	240	MDL	290	PQL	ug/Kg	UJ	C

Sample ID: SL-125-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.6	U	4.6	MDL	9.5	PQL	ug/Kg	UJ	C, C
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPA	80	U	80	MDL	260	PQL	ug/Kg	UJ	C

Sample ID: SL-126-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.6	U	4.6	MDL	9.4	PQL	ug/Kg	UJ	C, C
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPA	80	U	80	MDL	260	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-128-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.7	U	4.7	MDL	9.5	PQL	ug/Kg	UJ	C, C
DICAMBA	0.42	J	0.42	MDL	1.3	PQL	ug/Kg	J	Z, S, *IX
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L
MCPA	3200		81	MDL	270	PQL	ug/Kg	J	S, C

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.6	U	4.6	MDL	9.5	PQL	ug/Kg	UJ	C, C
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPA	590		80	MDL	260	PQL	ug/Kg	J	S, C

Method Category: SVOA

Method: 8270C

Matrix: AQ

Sample ID: EB02-SA5B-121410

Collected: 12/14/2010 12:30:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SED-026-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	47	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-002-SA5C-SB-4.0-5.0

Collected: 12/14/2010 9:42:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3600	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-140-SA5C-SB-3.0-4.0

Collected: 12/14/2010 2:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	50	J	19	MDL	370	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: AQ

Sample ID: EB02-SA5B-121410

Collected: 12/14/2010 12:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
2-METHYLNAPHTHALENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
BENZO(K)FLUORANTHENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	0.16	J	0.052	MDL	1.0	PQL	ug/L	J	Z
Butylbenzylphthalate	0.060	J	0.052	MDL	1.0	PQL	ug/L	U	B
CHRYSENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
DIBENZO(A,H)ANTHRACENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
Diethylphthalate	0.12	J	0.052	MDL	1.0	PQL	ug/L	J	Z, L
Dimethylphthalate	0.052	U	0.052	MDL	1.0	PQL	ug/L	UJ	L
Di-n-butylphthalate	0.15	J	0.052	MDL	1.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.083	J	0.052	MDL	1.0	PQL	ug/L	J	Z
FLUORANTHENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
NAPHTHALENE	0.027	J	0.010	MDL	0.052	PQL	ug/L	J	Z
N-NITROSODIMETHYLAMINE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SED-022-SIV-SD-0.0-0.5

Collected: 12/14/2010 10:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.6	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.72	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	0.68	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.2	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SED-022-SIV-SD-0.0-0.5

Collected: 12/14/2010 10:08:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	5.6		0.36	MDL	1.8	PQL	ug/Kg	J	L
DIBENZO(A,H)ANTHRACENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	L
Diethylphthalate	6.5	U	6.5	MDL	19	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	6.5	U	6.5	MDL	19	PQL	ug/Kg	UJ	L
FLUORANTHENE	16		0.72	MDL	1.8	PQL	ug/Kg	J	L
FLUORENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, L

Sample ID: SED-023-SIV-SD-0.0-0.5

Collected: 12/14/2010 9:19:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	8.4	J	6.7	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.75	U	0.75	MDL	1.9	PQL	ug/Kg	UJ	L
Diethylphthalate	6.7	U	6.7	MDL	20	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	6.7	U	6.7	MDL	20	PQL	ug/Kg	UJ	L
FLUORANTHENE	1.1	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z, L
FLUORENE	0.75	U	0.75	MDL	1.9	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.75	U	0.75	MDL	1.9	PQL	ug/Kg	UJ	L
NAPHTHALENE	1.6	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.6	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.1	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SED-024-SIV-SD-0.0-0.5

Collected: 12/14/2010 11:16:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.0	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	10	J	6.9	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	L
Diethylphthalate	6.9	U	6.9	MDL	21	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	6.9	U	6.9	MDL	21	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SED-024-SIV-SD-0.0-0.5

Collected: 12/14/2010 11:16:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z, L
FLUORENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	L
NAPHTHALENE	1.5	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.95	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SED-026-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.0	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.8	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
Butylbenzylphthalate	9.1	J	7.0	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	5.1		0.39	MDL	1.9	PQL	ug/Kg	J	L
DIBENZO(A,H)ANTHRACENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L
Diethylphthalate	7.0	U	7.0	MDL	21	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	7.0	U	7.0	MDL	21	PQL	ug/Kg	UJ	L
FLUORANTHENE	8.6		0.77	MDL	1.9	PQL	ug/Kg	J	L
FLUORENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	1.3	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z, L

Sample ID: SED-027-SIV-SD-0.0-0.5

Collected: 12/14/2010 3:59:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.94	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	13	J	6.9	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.85	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L
Diethylphthalate	6.9	U	6.9	MDL	21	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	6.9	U	6.9	MDL	21	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.94	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z, L
FLUORENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L
PHENANTHRENE	1.0	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-002-SA5C-SB-4.0-5.0

Collected: 12/14/2010 9:42:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	L
DIBENZO(A,H)ANTHRACENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	L
Diethylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	UJ	Q, L
Di-n-butylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	L
FLUORENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	L

Sample ID: SL-002-SA5C-SB-9.0-10.0

Collected: 12/14/2010 9:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.41	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
Diethylphthalate	7.2	U	7.2	MDL	22	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	7.2	U	7.2	MDL	22	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
FLUORENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L

Sample ID: SL-004-SA5C-SB-4.0-5.0

Collected: 12/14/2010 11:11:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.3	J	7.2	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.50	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
Diethylphthalate	7.2	U	7.2	MDL	21	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	7.2	U	7.2	MDL	21	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
FLUORENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L

Sample ID: SL-004-SA5C-SB-9.0-10.0

Collected: 12/14/2010 11:18:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	7.2	MDL	22	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-004-SA5C-SB-9.0-10.0

Collected: 12/14/2010 11:18:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.53	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
Diethylphthalate	7.2	U	7.2	MDL	22	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	7.2	U	7.2	MDL	22	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
FLUORENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L

Sample ID: SL-060-SA5C-SB-10.0-11.0

Collected: 12/14/2010 4:18:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	L
DIBENZO(A,H)ANTHRACENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L
Diethylphthalate	6.9	U	6.9	MDL	21	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	6.9	U	6.9	MDL	21	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L
FLUORENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L

Sample ID: SL-125-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	L
DIBENZO(A,H)ANTHRACENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	L
Diethylphthalate	6.3	U	6.3	MDL	19	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	6.3	U	6.3	MDL	19	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	L
FLUORENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	L

Sample ID: SL-126-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.82	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.73	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-126-SA5B-SS-0.0-0.5

Collected: 12/14/2010 2:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	9.6	J	6.3	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	1.5	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	L
Diethylphthalate	6.3	U	6.3	MDL	19	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	6.3	U	6.3	MDL	19	PQL	ug/Kg	UJ	L
FLUORANTHENE	1.7	J	0.70	MDL	1.7	PQL	ug/Kg	J	L
FLUORENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	L
PHENANTHRENE	0.75	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.5	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-128-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.86	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	0.41	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	10	J	6.4	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	4.9		0.35	MDL	1.8	PQL	ug/Kg	J	L
DIBENZO(A,H)ANTHRACENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	L
Diethylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	7.0	J	6.4	MDL	19	PQL	ug/Kg	J	Z, L
FLUORANTHENE	7.8		0.71	MDL	1.8	PQL	ug/Kg	J	L
FLUORENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, L
NAPHTHALENE	0.98	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	L
DIBENZO(A,H)ANTHRACENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	L
Diethylphthalate	6.3	U	6.3	MDL	19	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-129-SA5B-SS-0.0-0.5

Collected: 12/14/2010 1:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	6.3	U	6.3	MDL	19	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	L
FLUORENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	L

Sample ID: SL-140-SA5C-SB-3.0-4.0

Collected: 12/14/2010 2:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
DIBENZO(A,H)ANTHRACENE	0.74	U	0.74	MDL	1.9	PQL	ug/Kg	UJ	L
Diethylphthalate	6.7	U	6.7	MDL	20	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	6.7	U	6.7	MDL	20	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.74	U	0.74	MDL	1.9	PQL	ug/Kg	UJ	L
FLUORENE	0.74	U	0.74	MDL	1.9	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.74	U	0.74	MDL	1.9	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8330A

Matrix: SO

Sample ID: SL-002-SA5C-SB-4.0-5.0

Collected: 12/14/2010 9:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	82	U	82	MDL	160	PQL	ug/Kg	UJ	C

Sample ID: SL-002-SA5C-SB-9.0-10.0

Collected: 12/14/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	92	U	92	MDL	180	PQL	ug/Kg	UJ	C

Sample ID: SL-004-SA5C-SB-4.0-5.0

Collected: 12/14/2010 11:11:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	91	U	91	MDL	180	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA									
Method:	8330A	Matrix:	SO							

Sample ID: SL-004-SA5C-SB-9.0-10.0			Collected: 12/14/2010 11:18:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	92	U	92	MDL	180	PQL	ug/Kg	UJ	C

Sample ID: SL-060-SA5C-SB-10.0-11.0			Collected: 12/14/2010 4:18:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	88	U	88	MDL	170	PQL	ug/Kg	UJ	C

Method Category:	VOA									
Method:	8015B	Matrix:	SO							

Sample ID: SL-002-SA5C-SB-4.0-5.0			Collected: 12/14/2010 9:42:00		Analysis Type: REA4			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	130	J	110	MDL	530	PQL	ug/Kg	J	Z

Sample ID: SL-004-SA5C-SB-4.0-5.0			Collected: 12/14/2010 11:11:00		Analysis Type: REA4			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	410	J	120	MDL	600	PQL	ug/Kg	J	Z

Sample ID: SL-060-SA5C-SB-10.0-11.0			Collected: 12/14/2010 4:18:00		Analysis Type: REA4			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	160	J	110	MDL	570	PQL	ug/Kg	J	Z

Method Category:	VOA									
Method:	8260B	Matrix:	AQ							

Sample ID: EB02-SA5B-121410			Collected: 12/14/2010 12:30:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	6	U	6	MDL	20	PQL	ug/L	UJ	C
Chlorotrifluoroethylene	2	U	2	MDL	5	PQL	ug/L	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-002-SA5C-SB-4.0-5.0

Collected: 12/14/2010 9:42:00

Analysis Type: RES

Dilution: 0.99

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.7	U	1.7	MDL	8.5	PQL	ug/Kg	UJ	C, C
METHYLENE CHLORIDE	1.2	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.09	MDL	4.2	PQL	ug/Kg	J	Z

Sample ID: SL-002-SA5C-SB-9.0-10.0

Collected: 12/14/2010 9:50:00

Analysis Type: RES

Dilution: 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	5.6	J	1.3	MDL	8.3	PQL	ug/Kg	J	Z
2-HEXANONE	1.7	U	1.7	MDL	8.3	PQL	ug/Kg	UJ	C, C
METHYLENE CHLORIDE	0.88	J	0.25	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-004-SA5C-SB-4.0-5.0

Collected: 12/14/2010 11:11:00

Analysis Type: RES

Dilution: 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.8	U	1.8	MDL	8.8	PQL	ug/Kg	UJ	C, C
METHYLENE CHLORIDE	0.97	J	0.26	MDL	4.4	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.09	MDL	4.4	PQL	ug/Kg	J	Z

Sample ID: SL-004-SA5C-SB-9.0-10.0

Collected: 12/14/2010 11:18:00

Analysis Type: RES

Dilution: 0.8

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	3.4	J	1.2	MDL	7.7	PQL	ug/Kg	J	Z
2-HEXANONE	1.5	U	1.5	MDL	7.7	PQL	ug/Kg	UJ	C, C
METHYLENE CHLORIDE	1.1	J	0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.08	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-060-SA5C-SB-10.0-11.0

Collected: 12/14/2010 4:18:00

Analysis Type: RES

Dilution: 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.6	U	1.6	MDL	7.9	PQL	ug/Kg	UJ	C, C
METHYLENE CHLORIDE	3.3	J	0.24	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-140-SA5C-SB-3.0-4.0

Collected: 12/14/2010 2:28:00

Analysis Type: RES

Dilution: 0.94

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.7	U	1.7	MDL	8.4	PQL	ug/Kg	UJ	C, C
METHYLENE CHLORIDE	2.8	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XIII and *IX	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: PrepDE039_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE039

Method Blank Outlier Report

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B Matrix: AQ				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35548CB221648	12/23/2010 4:48:00 PM	MAGNESIUM	0.0421 mg/L	EB02-SA5B-121410
P35548CB222358	12/22/2010 11:58:00 PM	CALCIUM	0.0960 mg/L	EB02-SA5B-121410

Method: 6010B Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35108IB221836	12/22/2010 6:36:00 PM	PHOSPHORUS POTASSIUM TIN	1.51 mg/Kg 31.3 mg/Kg 1.41 mg/Kg	SED-022-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-024-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-004-SA5C-SB-9.0-10.0 SL-060-SA5C-SB-10.0-11.0 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-140-SA5C-SB-3.0-4.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SED-022-SIV-SD-0.0-0.5(RES)	TIN	2.34 mg/Kg	2.34U mg/Kg
SED-023-SIV-SD-0.0-0.5(RES)	TIN	2.38 mg/Kg	2.38U mg/Kg
SED-024-SIV-SD-0.0-0.5(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SED-026-SIV-SD-0.0-0.5(RES)	TIN	2.97 mg/Kg	2.97U mg/Kg
SED-027-SIV-SD-0.0-0.5(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	TIN	3.01 mg/Kg	3.01U mg/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	TIN	2.90 mg/Kg	2.90U mg/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-125-SA5B-SS-0.0-0.5(RES)	TIN	2.99 mg/Kg	2.99U mg/Kg
SL-126-SA5B-SS-0.0-0.5(RES)	TIN	2.93 mg/Kg	2.93U mg/Kg
SL-128-SA5B-SS-0.0-0.5(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-129-SA5B-SS-0.0-0.5(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35126DB221153A	12/26/2010 11:53:00 AM	CADMIUM COPPER LEAD THALLIUM VANADIUM	0.0774 mg/Kg 0.0704 mg/Kg 0.0185 mg/Kg 0.0412 mg/Kg 0.0507 mg/Kg	SED-022-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-024-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-004-SA5C-SB-9.0-10.0 SL-060-SA5C-SB-10.0-11.0 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-140-SA5C-SB-3.0-4.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SED-022-SIV-SD-0.0-0.5(RES)	CADMIUM	0.358 mg/Kg	0.358U mg/Kg
SED-023-SIV-SD-0.0-0.5(RES)	CADMIUM	0.216 mg/Kg	0.216U mg/Kg
SED-024-SIV-SD-0.0-0.5(RES)	CADMIUM	0.251 mg/Kg	0.251U mg/Kg
SED-026-SIV-SD-0.0-0.5(REA)	CADMIUM	0.260 mg/Kg	0.260U mg/Kg
SED-027-SIV-SD-0.0-0.5(RES)	CADMIUM	0.259 mg/Kg	0.259U mg/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	CADMIUM	0.0891 mg/Kg	0.0891U mg/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	CADMIUM	0.237 mg/Kg	0.237U mg/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	CADMIUM	0.220 mg/Kg	0.220U mg/Kg
SL-126-SA5B-SS-0.0-0.5(RES)	CADMIUM	0.387 mg/Kg	0.387U mg/Kg
SL-128-SA5B-SS-0.0-0.5(REA)	CADMIUM	0.307 mg/Kg	0.307U mg/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	CADMIUM	0.0533 mg/Kg	0.0533U mg/Kg

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB18B211848A	12/16/2010 6:48:00 PM	CHLOROFORM METHYLENE CHLORIDE	0.37 ug/Kg 1.0 ug/Kg	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-004-SA5C-SB-9.0-10.0 SL-060-SA5C-SB-10.0-11.0 SL-140-SA5C-SB-3.0-4.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-002-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.2 ug/Kg	4.2U ug/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	0.88 ug/Kg	4.1U ug/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.97 ug/Kg	4.4U ug/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	3.9U ug/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	METHYLENE CHLORIDE	3.3 ug/Kg	4.0U ug/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	METHYLENE CHLORIDE	2.8 ug/Kg	4.2U ug/Kg

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Method Blank Outlier Report

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWH35B261352	1/4/2011 1:52:00 PM	Butylbenzylphthalate	0.055 ug/L	EB02-SA5B-121410

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB02-SA5B-121410(RES)	Butylbenzylphthalate	0.060 ug/L	1.0U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM SSFL 110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-129-SA5B-SS-0.0-0.5MS (SED-026-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0 SL-128-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5)	FLUORIDE	65	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Method: 8015M

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-002-SA5C-SB-4.0-5.0MSD (SL-002-SA5C-SB-4.0-5.0)	DIETHYLENE GLYCOL	-	-	59.00-109.00	36 (20.00)	DIETHYLENE GLYCOL	J(all detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-002-SA5C-SB-4.0-5.0MS	ARSENIC	292	228	75.00-125.00	-	ARSENIC	J(all detects) Zn No Qual, >4x
SL-002-SA5C-SB-4.0-5.0MSD	BERYLLIUM	197	149	75.00-125.00	-	BERYLLIUM	
(SED -022-SIV-SD-0.0-0.5	CADMIUM	169	171	75.00-125.00	-	CADMIUM	
SED -023-SIV-SD-0.0-0.5	CHROMIUM	211	194	75.00-125.00	-	CHROMIUM	
SED -024-SIV-SD-0.0-0.5	COBALT	149	143	75.00-125.00	-	COBALT	
SED -026-SIV-SD-0.0-0.5	COPPER	159	157	75.00-125.00	-	COPPER	
SED -027-SIV-SD-0.0-0.5	LEAD	257	229	75.00-125.00	-	LEAD	
SL -002-SA5C-SB-4.0-5.0	NICKEL	172	164	75.00-125.00	-	NICKEL	
SL -002-SA5C-SB-9.0-10.0	SILVER	173	163	75.00-125.00	-	SILVER	
SL -004-SA5C-SB-4.0-5.0	THALLIUM	224	203	75.00-125.00	-	THALLIUM	
SL -004-SA5C-SB-9.0-10.0	VANADIUM	264	249	75.00-125.00	-	VANADIUM	
SL -060-SA5C-SB-10.0-11.0	ZINC	365	304	75.00-125.00	-	ZINC	
SL -125-SA5B-SS-0.0-0.5							
SL -126-SA5B-SS-0.0-0.5							
SL -128-SA5B-SS-0.0-0.5							
SL -129-SA5B-SS-0.0-0.5							
SL -140-SA5C-SB-3.0-4.0)							
SL-002-SA5C-SB-4.0-5.0MS	MOLYBDENUM	175	165	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-002-SA5C-SB-4.0-5.0MSD							
(SED -022-SIV-SD-0.0-0.5							
SED -023-SIV-SD-0.0-0.5							
SED -024-SIV-SD-0.0-0.5							
SED -026-SIV-SD-0.0-0.5							
SED -027-SIV-SD-0.0-0.5							
SL -002-SA5C-SB-4.0-5.0							
SL -002-SA5C-SB-9.0-10.0							
SL -004-SA5C-SB-4.0-5.0							
SL -004-SA5C-SB-9.0-10.0							
SL -060-SA5C-SB-10.0-11.0							
SL -125-SA5B-SS-0.0-0.5							
SL -126-SA5B-SS-0.0-0.5							
SL -128-SA5B-SS-0.0-0.5							
SL -129-SA5B-SS-0.0-0.5							
SL -140-SA5C-SB-3.0-4.0)							

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-002-SA5C-SB-4.0-5.0MS SL-002-SA5C-SB-4.0-5.0MSD (SED -022-SIV-SD-0.0-0.5 SED -023-SIV-SD-0.0-0.5 SED -024-SIV-SD-0.0-0.5 SED -026-SIV-SD-0.0-0.5 SED -027-SIV-SD-0.0-0.5 SL -002-SA5C-SB-4.0-5.0 SL -002-SA5C-SB-9.0-10.0 SL -004-SA5C-SB-4.0-5.0 SL -004-SA5C-SB-9.0-10.0 SL -060-SA5C-SB-10.0-11.0 SL -125-SA5B-SS-0.0-0.5 SL -126-SA5B-SS-0.0-0.5 SL -128-SA5B-SS-0.0-0.5 SL -129-SA5B-SS-0.0-0.5 SL -140-SA5C-SB-3.0-4.0)	BARIUM	472	400	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-002-SA5C-SB-4.0-5.0MS SL-002-SA5C-SB-4.0-5.0MSD (SED -022-SIV-SD-0.0-0.5 SED -023-SIV-SD-0.0-0.5 SED -024-SIV-SD-0.0-0.5 SED -026-SIV-SD-0.0-0.5 SED -027-SIV-SD-0.0-0.5 SL -002-SA5C-SB-4.0-5.0 SL -002-SA5C-SB-9.0-10.0 SL -004-SA5C-SB-4.0-5.0 SL -004-SA5C-SB-9.0-10.0 SL -060-SA5C-SB-10.0-11.0 SL -125-SA5B-SS-0.0-0.5 SL -126-SA5B-SS-0.0-0.5 SL -128-SA5B-SS-0.0-0.5 SL -129-SA5B-SS-0.0-0.5 SL -140-SA5C-SB-3.0-4.0)	ALUMINUM CALCIUM MAGNESIUM POTASSIUM TITANIUM	1340 190 358 139 221	771 - 250 - 131	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM CALCIUM MAGNESIUM POTASSIUM TITANIUM	J(all detects) Al, Ca, Mg, Ti No Qual, >4x
SL-002-SA5C-SB-4.0-5.0MS SL-002-SA5C-SB-4.0-5.0MSD (SED -022-SIV-SD-0.0-0.5 SED -023-SIV-SD-0.0-0.5 SED -024-SIV-SD-0.0-0.5 SED -026-SIV-SD-0.0-0.5 SED -027-SIV-SD-0.0-0.5 SL -002-SA5C-SB-4.0-5.0 SL -002-SA5C-SB-9.0-10.0 SL -004-SA5C-SB-4.0-5.0 SL -004-SA5C-SB-9.0-10.0 SL -060-SA5C-SB-10.0-11.0 SL -125-SA5B-SS-0.0-0.5 SL -126-SA5B-SS-0.0-0.5 SL -128-SA5B-SS-0.0-0.5 SL -129-SA5B-SS-0.0-0.5 SL -140-SA5C-SB-3.0-4.0)	IRON	670	-620	75.00-125.00	-	IRON	No Qual, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-002-SA5C-SB-4.0-5.0MSD (SED-022-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-024-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-004-SA5C-SB-9.0-10.0 SL-060-SA5C-SB-10.0-11.0 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-140-SA5C-SB-3.0-4.0)	MANGANESE PHOSPHORUS	- -	55 66	75.00-125.00 75.00-125.00	- -	MANGANESE PHOSPHORUS	J(all detects) UJ(all non-detects) Mn No Qual, >4x

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-002-SA5C-SB-4.0-5.0MS SL-002-SA5C-SB-4.0-5.0MSD (SL-002-SA5C-SB-4.0-5.0)	BENZIDINE	27	-	35.00-141.00	37 (30.00)	BENZIDINE	J(all detects) UJ(all non-detects)

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-002-SA5C-SB-4.0-5.0MS SL-002-SA5C-SB-4.0-5.0MSD (SL-002-SA5C-SB-4.0-5.0)	Diethylphthalate	70	72	87.00-131.00	-	Diethylphthalate	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-129-SA5B-SS-0.0-0.5DUP (SED-026-SIV-SD-0.0-0.5 SED -027-SIV-SD-0.0-0.5 SL -060-SA5C-SB-10.0-11.0 SL -128-SA5B-SS-0.0-0.5 SL -129-SA5B-SS-0.0-0.5)	FLUORIDE Nitrate-NO3	24 200	20.00 20.00	No Qual OK by difference
SL-002-SA5C-SB-4.0-5.0DUP (SED-022-SIV-SD-0.0-0.5 SED -023-SIV-SD-0.0-0.5 SED -024-SIV-SD-0.0-0.5 SL -002-SA5C-SB-4.0-5.0 SL -002-SA5C-SB-9.0-10.0 SL -004-SA5C-SB-4.0-5.0 SL -004-SA5C-SB-9.0-10.0 SL -125-SA5B-SS-0.0-0.5 SL -126-SA5B-SS-0.0-0.5 SL -140-SA5C-SB-3.0-4.0)	FLUORIDE	200	20.00	No Qual OK by difference

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-002-SA5C-SB-4.0-5.0DUP (SED-022-SIV-SD-0.0-0.5 SED -023-SIV-SD-0.0-0.5 SED -024-SIV-SD-0.0-0.5 SED -026-SIV-SD-0.0-0.5 SED -027-SIV-SD-0.0-0.5 SL -002-SA5C-SB-4.0-5.0 SL -002-SA5C-SB-9.0-10.0 SL -004-SA5C-SB-4.0-5.0 SL -004-SA5C-SB-9.0-10.0 SL -060-SA5C-SB-10.0-11.0 SL -125-SA5B-SS-0.0-0.5 SL -126-SA5B-SS-0.0-0.5 SL -128-SA5B-SS-0.0-0.5 SL -129-SA5B-SS-0.0-0.5 SL -140-SA5C-SB-3.0-4.0)	BORON Zirconium	39 200	20.00 20.00	No Qual OK by difference

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-002-SA5C-SB-4.0-5.0DUP	ARSENIC	29	20.00	J(all detects) UJ(all non-detects) Mo, Se, Ag No Qual OK by difference
(SED-022-SIV-SD-0.0-0.5	BARIUM	33	20.00	
SED -023-SIV-SD-0.0-0.5	CHROMIUM	28	20.00	
SED -024-SIV-SD-0.0-0.5	COPPER	27	20.00	
SED -026-SIV-SD-0.0-0.5	LEAD	28	20.00	
SED -027-SIV-SD-0.0-0.5	MOLYBDENUM	32	20.00	
SL -002-SA5C-SB-4.0-5.0	NICKEL	26	20.00	
SL -002-SA5C-SB-9.0-10.0	SELENIUM	24	20.00	
SL -004-SA5C-SB-4.0-5.0	SILVER	30	20.00	
SL -004-SA5C-SB-9.0-10.0	VANADIUM	27	20.00	
SL -060-SA5C-SB-10.0-11.0	ZINC	30	20.00	
SL -125-SA5B-SS-0.0-0.5				
SL -126-SA5B-SS-0.0-0.5				
SL -128-SA5B-SS-0.0-0.5				
SL -129-SA5B-SS-0.0-0.5				
SL -140-SA5C-SB-3.0-4.0)				

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-002-SA5C-SB-4.0-5.0DUP	HEXAVALENT CHROMIUM	30	20.00	No Qual OK by difference
(SED-022-SIV-SD-0.0-0.5				
SED -023-SIV-SD-0.0-0.5				
SED -024-SIV-SD-0.0-0.5				
SED -026-SIV-SD-0.0-0.5				
SED -027-SIV-SD-0.0-0.5				
SL -002-SA5C-SB-4.0-5.0				
SL -002-SA5C-SB-9.0-10.0				
SL -004-SA5C-SB-4.0-5.0				
SL -004-SA5C-SB-9.0-10.0				
SL -060-SA5C-SB-10.0-11.0				
SL -125-SA5B-SS-0.0-0.5				
SL -126-SA5B-SS-0.0-0.5				
SL -128-SA5B-SS-0.0-0.5				
SL -129-SA5B-SS-0.0-0.5				
SL -140-SA5C-SB-3.0-4.0)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03506AY241102A (EB02-SA5B-121410)	4,4'-DDE	-	137	66.00-130.00	-	4,4'-DDE	J (all detects)

Method: 8082

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03507AQ240905A P03507AY240846A (EB02-SA5B-121410)	Aroclor 5442	58	56	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Method: 8270C

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WBLCYSY262212 (EB02-SA5B-121410)	1,2-Diphenylhydrazine/Azobenz 2,4,5-TRICHLOROPHENOL 2,4-DICHLOROPHENOL 2,4-DIMETHYLPHENOL 2-CHLOROPHENOL 2-METHYLPHENOL DIBENZOFURAN	- - - - - - -	118 108 117 117 109 102 111	78.00-116.00 79.00-107.00 80.00-109.00 72.00-110.00 77.00-106.00 64.00-101.00 83.00-106.00	- - - - - - -	1,2-Diphenylhydrazine/Azobenz 2,4,5-TRICHLOROPHENOL 2,4-DICHLOROPHENOL 2,4-DIMETHYLPHENOL 2-CHLOROPHENOL 2-METHYLPHENOL DIBENZOFURAN	J(all detects)
P0WBLCYSY262212 (EB02-SA5B-121410)	BENZOIC ACID	-	-	10.00-69.00	44 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8270C SIM

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WHLCYSQ261426 P0WHLCYSY261500 (EB02-SA5B-121410)	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE BENZO(K)FLUORANTHENE CHRYSENE DIBENZO(A,H)ANTHRACENE Diethylphthalate Dimethylphthalate FLUORANTHENE N-NITROSODIMETHYLAMINE	- 71 - 75 - 67 67 - 59	69 66 71 - 69 65 - 58	71.00-117.00 75.00-115.00 72.00-122.00 76.00-116.00 71.00-125.00 70.00-130.00 70.00-130.00 75.00-116.00 70.00-130.00	- - - - - - - - -	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE BENZO(K)FLUORANTHENE CHRYSENE DIBENZO(A,H)ANTHRACENE Diethylphthalate Dimethylphthalate FLUORANTHENE N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8015M

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03510AQ321635A (SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-004-SA5C-SB-9.0-10.0 SL-060-SA5C-SB-10.0-11.0)	Propylene glycol	72	-	75.00-125.00	-	Propylene glycol	J(all detects) UJ(all non-detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03519AQ241754A (SED-022-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-024-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5)	METHOXYCHLOR	131	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03549AQ241013A P03549AY240955A (SED-022-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-024-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-004-SA5C-SB-9.0-10.0 SL-060-SA5C-SB-10.0-11.0 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-140-SA5C-SB-3.0-4.0)	Aroclor 5442	58	55	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03575AQ241324A (SED -022-SIV-SD-0.0-0.5 SED -023-SIV-SD-0.0-0.5 SED -024-SIV-SD-0.0-0.5 SED -026-SIV-SD-0.0-0.5 SED -027-SIV-SD-0.0-0.5 SL -125-SA5B-SS-0.0-0.5 SL -126-SA5B-SS-0.0-0.5 SL -128-SA5B-SS-0.0-0.5 SL -129-SA5B-SS-0.0-0.5)	2,4-D	144	-	40.00-140.00	-	2,4-D	J(all detects)
P03575AQ241324A (SED -022-SIV-SD-0.0-0.5 SED -023-SIV-SD-0.0-0.5 SED -024-SIV-SD-0.0-0.5 SED -026-SIV-SD-0.0-0.5 SED -027-SIV-SD-0.0-0.5 SL -125-SA5B-SS-0.0-0.5 SL -126-SA5B-SS-0.0-0.5 SL -128-SA5B-SS-0.0-0.5 SL -129-SA5B-SS-0.0-0.5)	DINOSEB	8	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P41JLCSQ261317 (SED -022-SIV-SD-0.0-0.5 SED -023-SIV-SD-0.0-0.5 SED -024-SIV-SD-0.0-0.5 SED -026-SIV-SD-0.0-0.5 SED -027-SIV-SD-0.0-0.5 SL -002-SA5C-SB-4.0-5.0 SL -002-SA5C-SB-9.0-10.0 SL -004-SA5C-SB-4.0-5.0 SL -004-SA5C-SB-9.0-10.0 SL -060-SA5C-SB-10.0-11.0 SL -125-SA5B-SS-0.0-0.5 SL -126-SA5B-SS-0.0-0.5 SL -128-SA5B-SS-0.0-0.5 SL -129-SA5B-SS-0.0-0.5 SL -140-SA5C-SB-3.0-4.0)	CHRYSENE DIBENZO(A,H)ANTHRACENE Diethylphthalate Di-n-butylphthalate FLUORANTHENE FLUORENE INDENO(1,2,3-CD)PYRENE	77 61 63 81 76 69 61	- - - - - - -	79.00-120.00 62.00-142.00 68.00-125.00 84.00-132.00 78.00-120.00 71.00-120.00 62.00-141.00	- - - - - - -	CHRYSENE DIBENZO(A,H)ANTHRACENE Diethylphthalate Di-n-butylphthalate FLUORANTHENE FLUORENE INDENO(1,2,3-CD)PYRENE	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-022-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	No Qual Diluted Out
SED-024-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	19	20.00-120.00	All Target Analytes	No Qual Diluted Out

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-023-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	132	45.00-120.00	All Target Analytes	J(all detects)
SED-024-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	142	45.00-120.00	All Target Analytes	J(all detects)
SED-026-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	185 195	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SED-027-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	155	45.00-120.00	All Target Analytes	J(all detects)
SL-002-SA5C-SB-4.0-5.0	DECACHLOROBIPHENYL	121	45.00-120.00	All Target Analytes	J(all detects)
SL-060-SA5C-SB-10.0-11.0	DECACHLOROBIPHENYL	151	45.00-120.00	All Target Analytes	J(all detects)
SL-125-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	127	45.00-120.00	All Target Analytes	J(all detects)
SL-126-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	151	45.00-120.00	All Target Analytes	J(all detects)
SL-129-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	129	45.00-120.00	All Target Analytes	No Qual Diluted Out

Method: 8151A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-022-SIV-SD-0.0-0.5	2,4-Dichlorophenylacetic acid	231	36.00-156.00	All Target Analytes	J(all detects)
SED-026-SIV-SD-0.0-0.5	2,4-Dichlorophenylacetic acid	377	36.00-156.00	All Target Analytes	J(all detects)
SL-125-SA5B-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	178	36.00-156.00	All Target Analytes	J(all detects)
SL-126-SA5B-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	157	36.00-156.00	All Target Analytes	J(all detects)
SL-128-SA5B-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	162	36.00-156.00	All Target Analytes	J(all detects)
SL-129-SA5B-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	193	36.00-156.00	All Target Analytes	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB02-SA5B-121410	IRON	J	0.0533	0.200	PQL	mg/L	J (all detects)

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB02-SA5B-121410	LEAD	J	0.000075	0.0010	PQL	mg/L	J (all detects)
	MOLYBDENUM	J	0.00032	0.00050	PQL	mg/L	

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB02-SA5B-121410	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.16	1.0	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.060	1.0	PQL	ug/L	
	Diethylphthalate	J	0.12	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.15	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.083	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.027	0.052	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-027-SIV-SD-0.0-0.5	FLUORIDE	J	1.1	1.2	PQL	mg/Kg	J (all detects)
SL-002-SA5C-SB-9.0-10.0	Nitrate-NO3	J	1.1	1.8	PQL	mg/Kg	J (all detects)
SL-004-SA5C-SB-4.0-5.0	Nitrate-NO3	J	1.6	1.8	PQL	mg/Kg	J (all detects)
SL-060-SA5C-SB-10.0-11.0	FLUORIDE	J	0.95	1.1	PQL	mg/Kg	J (all detects)
	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-022-SIV-SD-0.0-0.5	BORON	J	4.54	5.31	PQL	mg/Kg	J (all detects)
	SODIUM	J	79.9	106	PQL	mg/Kg	
	TIN	J	2.34	10.6	PQL	mg/Kg	
	Zirconium	J	0.900	5.31	PQL	mg/Kg	
SED-023-SIV-SD-0.0-0.5	BORON	J	4.10	5.44	PQL	mg/Kg	J (all detects)
	SODIUM	J	67.3	109	PQL	mg/Kg	
	TIN	J	2.38	10.9	PQL	mg/Kg	
	Zirconium	J	1.16	5.44	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-024-SIV-SD-0.0-0.5	BORON	J	3.73	5.62	PQL	mg/Kg	J (all detects)
	SODIUM	J	68.9	112	PQL	mg/Kg	
	TIN	J	2.66	11.2	PQL	mg/Kg	
	Zirconium	J	1.51	5.62	PQL	mg/Kg	
SED-026-SIV-SD-0.0-0.5	BORON	J	4.12	5.74	PQL	mg/Kg	J (all detects)
	SODIUM	J	112	115	PQL	mg/Kg	
	TIN	J	2.97	11.5	PQL	mg/Kg	
SED-027-SIV-SD-0.0-0.5	BORON	J	4.15	5.79	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.1	116	PQL	mg/Kg	
	TIN	J	2.57	11.6	PQL	mg/Kg	
	Zirconium	J	1.31	5.79	PQL	mg/Kg	
SL-002-SA5C-SB-4.0-5.0	BORON	J	2.97	5.28	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.4	106	PQL	mg/Kg	
	TIN	J	2.76	10.6	PQL	mg/Kg	
SL-002-SA5C-SB-9.0-10.0	BORON	J	5.03	5.77	PQL	mg/Kg	J (all detects)
	TIN	J	3.01	11.5	PQL	mg/Kg	
	Zirconium	J	5.23	5.77	PQL	mg/Kg	
SL-004-SA5C-SB-4.0-5.0	BORON	J	4.55	5.74	PQL	mg/Kg	J (all detects)
	TIN	J	2.90	11.5	PQL	mg/Kg	
	Zirconium	J	3.75	5.74	PQL	mg/Kg	
SL-004-SA5C-SB-9.0-10.0	TIN	J	2.81	11.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.89	5.95	PQL	mg/Kg	
SL-060-SA5C-SB-10.0-11.0	BORON	J	0.988	5.52	PQL	mg/Kg	J (all detects)
	TIN	J	2.92	11.0	PQL	mg/Kg	
SL-125-SA5B-SS-0.0-0.5	BORON	J	2.74	5.18	PQL	mg/Kg	J (all detects)
	SODIUM	J	89.2	104	PQL	mg/Kg	
	TIN	J	2.99	10.4	PQL	mg/Kg	
	Zirconium	J	1.36	5.18	PQL	mg/Kg	
SL-126-SA5B-SS-0.0-0.5	BORON	J	2.45	5.19	PQL	mg/Kg	J (all detects)
	SODIUM	J	100	104	PQL	mg/Kg	
	TIN	J	2.93	10.4	PQL	mg/Kg	
	Zirconium	J	4.40	5.19	PQL	mg/Kg	
SL-128-SA5B-SS-0.0-0.5	BORON	J	2.87	5.10	PQL	mg/Kg	J (all detects)
	SODIUM	J	78.0	102	PQL	mg/Kg	
	TIN	J	3.05	10.2	PQL	mg/Kg	
	Zirconium	J	1.38	5.10	PQL	mg/Kg	
SL-129-SA5B-SS-0.0-0.5	BORON	J	2.49	5.08	PQL	mg/Kg	J (all detects)
	SODIUM	J	84.5	102	PQL	mg/Kg	
	TIN	J	2.55	10.2	PQL	mg/Kg	
	Zirconium	J	1.62	5.08	PQL	mg/Kg	
SL-140-SA5C-SB-3.0-4.0	BORON	J	2.76	5.35	PQL	mg/Kg	J (all detects)
	TIN	J	2.61	10.7	PQL	mg/Kg	
	Zirconium	J	2.03	5.35	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-022-SIV-SD-0.0-0.5	SELENIUM	J	0.184	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0842	0.106	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-023-SIV-SD-0.0-0.5	SELENIUM	J	0.313	0.444	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0467	0.111	PQL	mg/Kg	
SED-024-SIV-SD-0.0-0.5	ANTIMONY	J	0.194	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.206	0.445	PQL	mg/Kg	
	SILVER	J	0.0600	0.111	PQL	mg/Kg	
SED-026-SIV-SD-0.0-0.5	ANTIMONY	J	0.128	0.230	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.177	0.459	PQL	mg/Kg	
SED-027-SIV-SD-0.0-0.5	ANTIMONY	J	0.164	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.225	0.454	PQL	mg/Kg	
SL-002-SA5C-SB-4.0-5.0	ANTIMONY	J	0.160	0.211	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0891	0.106	PQL	mg/Kg	
	SELENIUM	J	0.101	0.422	PQL	mg/Kg	
	SILVER	J	0.0148	0.106	PQL	mg/Kg	
SL-002-SA5C-SB-9.0-10.0	SELENIUM	J	0.186	0.471	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0442	0.118	PQL	mg/Kg	
SL-004-SA5C-SB-4.0-5.0	SELENIUM	J	0.0746	0.473	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0893	0.118	PQL	mg/Kg	
SL-004-SA5C-SB-9.0-10.0	SELENIUM	J	0.252	0.467	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0645	0.117	PQL	mg/Kg	
SL-060-SA5C-SB-10.0-11.0	SELENIUM	J	0.268	0.442	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0336	0.110	PQL	mg/Kg	
SL-125-SA5B-SS-0.0-0.5	SELENIUM	J	0.210	0.414	PQL	mg/Kg	J (all detects)
SL-126-SA5B-SS-0.0-0.5	SELENIUM	J	0.169	0.416	PQL	mg/Kg	J (all detects)
SL-128-SA5B-SS-0.0-0.5	SELENIUM	J	0.225	0.420	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0991	0.105	PQL	mg/Kg	
SL-129-SA5B-SS-0.0-0.5	SELENIUM	J	0.242	0.418	PQL	mg/Kg	J (all detects)
SL-140-SA5C-SB-3.0-4.0	ANTIMONY	J	0.169	0.220	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0533	0.110	PQL	mg/Kg	
	SELENIUM	J	0.0532	0.441	PQL	mg/Kg	
	SILVER	J	0.0480	0.110	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-002-SA5C-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.51	1.2	PQL	mg/Kg	J (all detects)
SL-126-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.42	1.0	PQL	mg/Kg	J (all detects)
SL-129-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-022-SIV-SD-0.0-0.5	MERCURY	J	0.0220	0.102	PQL	mg/Kg	J (all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-023-SIV-SD-0.0-0.5	MERCURY	J	0.0082	0.109	PQL	mg/Kg	J (all detects)
SED-024-SIV-SD-0.0-0.5	MERCURY	J	0.0121	0.114	PQL	mg/Kg	J (all detects)
SED-027-SIV-SD-0.0-0.5	MERCURY	J	0.0513	0.111	PQL	mg/Kg	J (all detects)
SL-002-SA5C-SB-9.0-10.0	MERCURY	J	0.0046	0.119	PQL	mg/Kg	J (all detects)
SL-004-SA5C-SB-4.0-5.0	MERCURY	J	0.0138	0.115	PQL	mg/Kg	J (all detects)
SL-004-SA5C-SB-9.0-10.0	MERCURY	J	0.0068	0.120	PQL	mg/Kg	J (all detects)
SL-125-SA5B-SS-0.0-0.5	MERCURY	J	0.0113	0.103	PQL	mg/Kg	J (all detects)
SL-126-SA5B-SS-0.0-0.5	MERCURY	J	0.0113	0.104	PQL	mg/Kg	J (all detects)
SL-128-SA5B-SS-0.0-0.5	MERCURY	J	0.0117	0.105	PQL	mg/Kg	J (all detects)
SL-129-SA5B-SS-0.0-0.5	MERCURY	J	0.0101	0.103	PQL	mg/Kg	J (all detects)
SL-140-SA5C-SB-3.0-4.0	MERCURY	J	0.0063	0.111	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5C-SB-4.0-5.0	METHANOL	J	130	530	PQL	ug/Kg	J (all detects)
SL-004-SA5C-SB-4.0-5.0	METHANOL	J	410	600	PQL	ug/Kg	J (all detects)
SL-060-SA5C-SB-10.0-11.0	METHANOL	J	160	570	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5C-SB-4.0-5.0	EFH (C21-C30)	J	0.59	1.3	PQL	mg/Kg	J (all detects)
	EFH (C30-C40)	J	0.74	1.3	PQL	mg/Kg	
SL-002-SA5C-SB-9.0-10.0	EFH (C21-C30)	J	0.96	1.4	PQL	mg/Kg	J (all detects)
SL-004-SA5C-SB-4.0-5.0	EFH (C30-C40)	J	1.1	1.4	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-022-SIV-SD-0.0-0.5	4,4'-DDE	J	0.96	3.7	PQL	ug/Kg	J (all detects)
	4,4'-DDT	J	1.6	3.7	PQL	ug/Kg	
	ENDRIN ALDEHYDE	J	1.8	3.7	PQL	ug/Kg	
SED-023-SIV-SD-0.0-0.5	DELTA-BHC	J	0.26	0.93	PQL	ug/Kg	J (all detects)
	HEPTACHLOR	J	0.56	0.93	PQL	ug/Kg	
SED-024-SIV-SD-0.0-0.5	DELTA-BHC	J	0.93	0.95	PQL	ug/Kg	J (all detects)
	HEPTACHLOR	J	0.39	0.95	PQL	ug/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-026-SIV-SD-0.0-0.5	ALPHA-BHC	J	0.066	0.19	PQL	ug/Kg	J (all detects)
SL-126-SA5B-SS-0.0-0.5	BETA-BHC	J	0.12	0.17	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.042	0.17	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.065	0.17	PQL	ug/Kg	
SL-129-SA5B-SS-0.0-0.5	4,4'-DDD	J	0.99	3.6	PQL	ug/Kg	J (all detects)
	BETA-BHC	J	0.065	0.18	PQL	ug/Kg	
	DELTA-BHC	J	0.093	0.18	PQL	ug/Kg	
	DIELDRIN	J	1.0	3.6	PQL	ug/Kg	
	ENDOSULFAN SULFATE	J	1.8	3.6	PQL	ug/Kg	
	ENDRIN ALDEHYDE	J	0.86	3.6	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.058	0.18	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-023-SIV-SD-0.0-0.5	AROCLOR 1254	J	1.4	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.70	1.9	PQL	ug/Kg	
SED-024-SIV-SD-0.0-0.5	AROCLOR 1260	J	1.5	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	3.1	3.8	PQL	ug/Kg	
SED-027-SIV-SD-0.0-0.5	Aroclor 5460	J	3.6	7.6	PQL	ug/Kg	J (all detects)
SL-004-SA5C-SB-9.0-10.0	AROCLOR 1254	J	0.66	2.0	PQL	ug/Kg	J (all detects)
SL-060-SA5C-SB-10.0-11.0	AROCLOR 1254	J	1.2	2.0	PQL	ug/Kg	J (all detects)
SL-126-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.50	1.8	PQL	ug/Kg	J (all detects)
SL-129-SA5B-SS-0.0-0.5	Aroclor 5460	J	18	35	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-023-SIV-SD-0.0-0.5	DICAMBA	J	0.69	1.3	PQL	ug/Kg	J (all detects)
SED-024-SIV-SD-0.0-0.5	DICAMBA	J	1.0	1.4	PQL	ug/Kg	J (all detects)
SED-026-SIV-SD-0.0-0.5	DICAMBA	J	0.57	1.4	PQL	ug/Kg	J (all detects)
SED-027-SIV-SD-0.0-0.5	DICAMBA	J	1.3	1.4	PQL	ug/Kg	J (all detects)
SL-128-SA5B-SS-0.0-0.5	DICAMBA	J	0.42	1.3	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.2	4.2	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.11	4.2	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5C-SB-9.0-10.0	2-BUTANONE (MEK)	J	5.6	8.3	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.88	4.1	PQL	ug/Kg	
	TOLUENE	J	0.09	4.1	PQL	ug/Kg	
SL-004-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.97	4.4	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.09	4.4	PQL	ug/Kg	
SL-004-SA5C-SB-9.0-10.0	2-BUTANONE (MEK)	J	3.4	7.7	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.1	3.9	PQL	ug/Kg	
	TOLUENE	J	0.08	3.9	PQL	ug/Kg	
SL-060-SA5C-SB-10.0-11.0	METHYLENE CHLORIDE	J	3.3	4.0	PQL	ug/Kg	J (all detects)
SL-140-SA5C-SB-3.0-4.0	METHYLENE CHLORIDE	J	2.8	4.2	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.09	4.2	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-026-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	47	390	PQL	ug/Kg	J (all detects)
SL-140-SA5C-SB-3.0-4.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	50	370	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-022-SIV-SD-0.0-0.5	1-METHYLNAPHTHALENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.6	1.8	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.72	1.8	PQL	ug/Kg	
	ANTHRACENE	J	0.68	1.8	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.8	PQL	ug/Kg	
SED-023-SIV-SD-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.4	20	PQL	ug/Kg	
	CHRYSENE	J	1.4	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	1.6	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	1.9	PQL	ug/Kg	
	PYRENE	J	1.1	1.9	PQL	ug/Kg	
SED-024-SIV-SD-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.0	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.2	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.9	PQL	ug/Kg	
	PYRENE	J	0.95	1.9	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE039

Laboratory: LL

EDD Filename: DE039_v1.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-026-SIV-SD-0.0-0.5	ANTHRACENE	J	1.0	1.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.6	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.8	1.9	PQL	ug/Kg	
	Butylbenzylphthalate	J	9.1	21	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.9	PQL	ug/Kg	
SED-027-SIV-SD-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.94	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	
	CHRYSENE	J	0.85	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	0.94	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.9	PQL	ug/Kg	
SL-002-SA5C-SB-9.0-10.0	CHRYSENE	J	0.41	2.0	PQL	ug/Kg	J (all detects)
SL-004-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.3	21	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.50	2.0	PQL	ug/Kg	
SL-004-SA5C-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	22	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.53	2.0	PQL	ug/Kg	
SL-126-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.82	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.73	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.6	19	PQL	ug/Kg	
	CHRYSENE	J	1.5	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.75	1.7	PQL	ug/Kg	
	PYRENE	J	1.5	1.7	PQL	ug/Kg	
SL-128-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.86	1.8	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.41	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.5	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	10	19	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.0	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.98	1.8	PQL	ug/Kg	

Enclosure II

EPA Level IV Validation Reports

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 11, 2011

Matrix: Soil/Water

Parameters: Volatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
EB02-SA5B-121410
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-140-SA5C-SB-3.0-4.0
SL-060-SA5C-SB-10.0-11.0
SL-004-SA5C-SB-4.0-5.0MS

Introduction

This data review covers 7 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
12/16/10	2-Hexanone	30	All soil samples in SDG DE039	J (all detects) UJ (all non-detects)	A
12/17/10	Chlorotrifluoroethene	30	All water samples in SDG DE039	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
11/23/10	2-Hexanone	28	All soil samples in SDG DE039	J (all detects) UJ (all non-detects)	A
11/10/10	Acetone	40	All water samples in SDG DE039	J (all detects) UJ (all non-detects)	A

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
VLKB18	12/16/10	Methylene chloride Chloroform	1.0 ug/Kg 0.4 ug/Kg	All soil samples in SDG DE039

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
SL-002-SA5C-SB-4.0-5.0	Methylene chloride	1.2 ug/Kg	4.2U ug/Kg
SL-002-SA5C-SB-9.0-10.0	Methylene chloride	0.88 ug/Kg	4.1U ug/Kg
SL-004-SA5C-SB-9.0-10.0	Methylene chloride	1.1 ug/Kg	3.9U ug/Kg
SL-004-SA5C-SB-4.0-5.0	Methylene chloride	0.97 ug/Kg	4.4U ug/Kg
SL-140-SA5C-SB-3.0-4.0	Methylene chloride	2.8 ug/Kg	4.2U ug/Kg
SL-060-SA5C-SB-10.0-11.0	Methylene chloride	3.3 ug/Kg	4.0U ug/Kg

Sample EB02-SA5B-121410 was identified as an equipment blank. No volatile contaminants were found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Volatiles - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SL-060-SA5C-SB-10.0-11.0	2-Hexanone	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE039	EB02-SA5B-121410	Chlorotrifluoroethene	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SL-060-SA5C-SB-10.0-11.0	2-Hexanone	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE039	EB02-SA5B-121410	Acetone	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 EB02-SA5B-121410 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Volatiles - Laboratory Blank Data Qualification Summary - SDG DE039

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE039	SL-002-SA5C-SB-4.0-5.0	Methylene chloride	4.2U ug/Kg	A	B
DE039	SL-002-SA5C-SB-9.0-10.0	Methylene chloride	4.1U ug/Kg	A	B
DE039	SL-004-SA5C-SB-9.0-10.0	Methylene chloride	3.9U ug/Kg	A	B
DE039	SL-004-SA5C-SB-4.0-5.0	Methylene chloride	4.4U ug/Kg	A	B
DE039	SL-140-SA5C-SB-3.0-4.0	Methylene chloride	4.2U ug/Kg	A	B
DE039	SL-060-SA5C-SB-10.0-11.0	Methylene chloride	4.0U ug/Kg	A	B

Santa Susana Field Laboratory
Volatiles - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J1a **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE039

Level IV

Laboratory: Lancaster Laboratories

Date: 5/11/11

Page: 1 of 1

Reviewer: F7

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration	A	% RSD ≤ 30, r ²
IV.	Continuing calibration/ICV	SW	ICV / CCV ≤ 25
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	MS only
VIII.	Laboratory control samples	Δ	100 / 100
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	Δ	
XI.	Target compound identification	Δ	
XII.	Compound quantitation/CRQLs	Δ	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	Δ	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	ND	EB = 3

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil + water

1	SL-002-SA5C-SB-4.0-5.0	5	11	YBLK B18	21		31	
2	SL-002-SA5C-SB-9.0-10.0	↓	12	YBLK Y44	22		32	
3	EB02-SA5B-121410	W	13		23		33	
4	SL-004-SA5C-SB-9.0-10.0	5	14		24		34	
5	SL-004-SA5C-SB-4.0-53.0	S-U	15		25		35	
6	SL-140-SA5C-SB-3.0-4.0		16		26		36	
7	SL-060-SA5C-SB-10.0-11.0	↓	17		27		37	
8	#5 MS		18		28		38	
9			19		29		39	
10			20		30		40	

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
Technical Holding Times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
GC/MS Instrumentation				
Were the BFB performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
Calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Was a curve fit used for evaluation?	/			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	/			
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ?	/			
Continuing Calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ?	/			
Method Blank				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/			
Surrogate Recovery				
Were all surrogate %R within QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
Matrix Spike				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
LCS				
Was an LCS analyzed for this SDG?	/			

LDC #: 253371a

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: FT
2nd Reviewer: [Signature]

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
X. Reference Quality Assurance				
Were performance evaluation (PE) samples performed?	☐	☐	☒	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	
X. Internal Standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	☒	☐	☐	
Were retention times within + 30 seconds of the associated calibration standard?	☒	☐	☐	
X. Functional Guidelines				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	☒	☐	☐	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	☒	☐	☐	
Were chromatogram peaks verified and accounted for?	☒	☐	☐	
X. Quantitation				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	☒	☐	☐	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
X. Reference Spectra				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	☐	☐	☒	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?	☐	☐	☒	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	☐	☐	☒	
System Performance				
System performance was found to be acceptable.	☒	☐	☐	
Overall Assessment				
Overall assessment of data was found to be acceptable.	☒	☐	☐	
X. Field Performance				
Field duplicate pairs were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field duplicates.	☐	☐	☒	
Field Blanks				
Field blanks were identified in this SDG.	☒	☐	☐	
Target compounds were detected in the field blanks.	☐	☒	☐	

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl chloride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethane	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethane**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethane	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethane	KKKK. Propionitrile
J. 1,2-Dichloroethane, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN.
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethane	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y	N	N/A
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?		

Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?

Y/N	Were all %D and RRFs within the validation criteria of $\leq 25\%$ D and ≥ 0.05 RRF?
N/A	

[illegible]

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_s)(C_{is}) / (A_{is})(C_s)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

$$A_s = \text{Area of compound,}$$

$$C_s = \text{Concentration of compound,}$$

$$S = \text{Standard deviation of the RRFs}$$

$$X = \text{Mean of the RRFs}$$

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				RRF (S) std)	RRF (S) std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	1CAL 201	12/23/10	C (1st internal standard)	0.3865	0.3865	0.3806	0.3806	4	4
			EE (2nd internal standard)	1.5410	1.5410	1.6059	1.6059	7	7
			JJJ (3rd internal standard)	1.3628	1.3628	1.4115	1.4115	9	9
			(4th internal standard)						
2	1CAL 201	11/10/10	C (1st internal standard)	0.4983	0.4983	0.5095	0.5095	2	2
			EE (2nd internal standard)	1.9261	1.9261	1.9401	1.9401	7	7
			JJJ (3rd internal standard)	1.5950	1.5950	1.5784	1.5784	7	7
			(4th internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$

RRF = $(A_x)(C_{is}) / (A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

A_x = Area of compound,

C_x = Concentration of compound,

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCW 15:47	12/16/10	C (1st internal standard)	0.3806	0.3555	0.3555	7	7
			EE (2nd internal standard)	1.6059	1.5158	1.5158	6	6
			JJJ (3rd internal standard)	1.4115	1.1610	1.1610	18	18
			(4th internal standard)					
2	CCW 20:3	12/17/10	C (1st internal standard)	0.5095	0.4791	0.4791	6	6
			EE (2nd internal standard)	1.9401	1.9752	1.9752	2	2
			JJJ (3rd internal standard)	1.5784	1.5940	1.5940	1	1
			(4th internal standard)					
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J/a

VALIDATION FINDINGS WORKSHEET **Surrogate Results Verification**

Page: 1 of 1Reviewer: FT2nd reviewer: C**METHOD:** GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$ Where: SF = Surrogate Found
SS = Surrogate SpikedSample ID: # 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane	50.0	51.735	103	103	0
1,2-Dichloroethane-d4		49.543	99	99	
Toluene-d8		48.740	97	97	
Bromofluorobenzene		46.168	92	92	

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 11, 2011

Matrix: Soil/Water

Parameters: 1,4-Dioxane

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
TB-121410
EB02-SA5B-121410
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-140-SA5C-SB-3.0-4.0
SL-060-SA5C-SB-10.0-11.0

Introduction

This data review covers 6 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B using Selected Ion Monitoring (SIM) for 1,4-Dioxane.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0%.

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 25.0% .

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% .

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No 1,4-dioxane was found in the method blanks.

Sample TB-121410 was identified as a trip blank. No 1,4-dioxane was found in this blank.

Sample EB02-SA5B-121410 was identified as an equipment blank. No 1,4-dioxane was found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
1,4-Dioxane - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 TB-121410 EB02-SA5B-121410 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
1,4-Dioxane - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J1b **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE039

Level IV

Laboratory: Lancaster Laboratories

Date: 5/11/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS 1,4-Dioxane (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 12/14/10
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration	Δ	% RSD ≤ 30
IV.	Continuing calibration/ICV	Δ	1CV / CV ≤ 25
V.	Blanks	Δ	
VI.	Surrogate spikes	SW Δ	
VII.	Matrix spike/Matrix spike duplicates	N	chert specified
VIII.	Laboratory control samples	Δ	100% ID
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	Δ	
XI.	Target compound identification	Δ	
XII.	Compound quantitation/CRQLs	Δ	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	Δ	
XV.	Overall assessment of data	Δ	
XVI.	Field duplicates	N	
XVII.	Field blanks	ND	TB = 3 EB = 4

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

soil + water

11	SL-002-SA5C-SB-4.0-5.0	5	11	1	YBLKE72	21		31	
2	SL-002-SA5C-SB-9.0-10.0	↓	12	2	YBLKE71	22		32	
3	TB-121410	w	13			23		33	
4	EB02-SA5B-121410	✓	14			24		34	
5	SL-004-SA5C-SB-9.0-10.0	5	15			25		35	
6	SL-004-SA5C-SB-4.0-5.0	5.0	16			26		36	
7	SL-140-SA5C-SB-3.0-4.0		17			27		37	
8	SL-060-SA5C-SB-10.0-11.0	✓	18			28		38	
9			19			29		39	
10			20			30		40	

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
TECHNICAL HOLDING TIMES				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
QC LIMITS				
Were the BFB performance results reviewed and found to be within the specified criteria?	☒	☐	☐	
Were all samples analyzed within the 12 hour clock criteria?	☒	☐	☐	
LABORATORY PERFORMANCE				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	☒	☐	☐	
Was a curve fit used for evaluation?	☐	☒	☐	
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	☐	☐	☒	
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) ≥ 0.05 ?	☒	☐	☐	
CONTINUING CALIBRATION				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	☒	☐	☐	
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	☐	☐	☒	
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ?	☒	☐	☐	
METHOD BLANKS				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
SURROGATE RECOVERY				
Were all surrogate %R within QC limits?	☒	☒	☐	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	☐	☒	☐	
MATRIX SPIKE				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☐	☐	☒	
Was a MS/MSD analyzed every 20 samples of each matrix?	☐	☐	☒	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☐	☒	
LABORATORY CONTROL SAMPLE				
Was an LCS analyzed for this SDG?	☒	☐	☐	

VALIDATION FINDINGS CHECKLIST

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
IX. Regional Data Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☐	☒	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	
X. Instrument Performance				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	☒	☐	☐	
Were retention times within + 30 seconds of the associated calibration standard?	☒	☐	☐	
XI. Data Review				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	☒	☐	☒	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	☒	☐	☒	
Were chromatogram peaks verified and accounted for?	☒	☐	☐	
XII. Quantitation				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	☐	☐	☒	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
XIII. Reference Spectra				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	☐	☐	☒	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?	☐	☐	☒	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	☐	☐	☒	
XIV. System Performance				
System performance was found to be acceptable.	☒	☐	☐	
XV. Overall Assessment				
Overall assessment of data was found to be acceptable.	☒	☐	☐	
XVI. Field Data				
Field duplicate pairs were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field duplicates.	☐	☐	☒	
XVII. Field Blanks				
Field blanks were identified in this SDG.	☒	☐	☐	
Target compounds were detected in the field blanks.	☐	☒	☐	

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC. 1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl chloride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropane	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethane	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethane**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethane	JJJJ. Methylacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethane	KKKK. Propionitrile
J. 1,2-Dichloroethane, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN.
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Diisopropyl ether	RRRR.
Q. 1,2-Dichloropropene**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethane	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 25337J/b

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: CD

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_s/C_s)/(A_x/C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = $100 * (S/X)$

A_s = Area of compound,
 C_s = Concentration of compound,
 S = Standard deviation of the RRFs
 X = Mean of the RRFs

A_s = Area of associated internal standard
 C_s = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				RRF ($\bar{S}$ std)	RRF ($\bar{S}$ std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	1CAL soil	11/07/10	1,4-Dioxane (1st internal standard)	1.3539	1.3539	1.3396	1.3376	2	2
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
2	1CAL water	11/01/10	1,4-Dioxane (1st internal standard)	1.3359	1.3359	1.3219	1.3219	1	1
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J/b

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: CA

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (A_x)(C_s) / (A_s)(C_x)$$

Where: ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

A_x = Area of compound,

C_x = Concentration of compound,

A_s = Area of associated internal standard

C_s = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	00V 10:02	12/17/10	1,1 - Dioxane (1st internal standard)	1.3396	1.3988	1.3988	10	10
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
2	00V 16:30	12/16/10	↓ (1st internal standard)	1.3219	1.3014	1.3014	10	10
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J16

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1

Reviewer: FT

2nd reviewer: C

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$ Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8	10	9.844	98	98	0
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration
SA = Spike added

$$RPD = |LCS - LCSD| * 2 / (LCS + LCSD)$$

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCSID: vs|0 8011

[illegible]

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J16

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: 1 of 1

Reviewer: FT

2nd reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Y N /N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_s)(I_s)(DF)}{(A_b)(RRF)(V_o)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. _____, _____:

$$\text{Conc.} = \frac{(\quad)(\quad)(\quad)}{(\quad)(\quad)(\quad)}$$

11

[illegible]

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 12, 2011

Matrix: Soil/Sediment/Water

Parameters: Semivolatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
EB02-SA5B-121410
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-140-SA5C-SB-3.0-4.0
SED-024-SIV-SD-0.0-0.5
SED-023-SIV-SD-0.0-0.5
SED-022-SIV-SD-0.0-0.5
SL-125-SA5B-SS-0.0-0.5
SL-126-SA5B-SS-0.0-0.5
SL-129-SA5B-SS-0.0-0.5
SL-128-SA5B-SS-0.0-0.5
SED-027-SIV-SD-0.0-0.5
SED-026-SIV-SD-0.0-0.5
SL-060-SA5C-SB-10.0-11.0
SL-002-SA5C-SB-4.0-5.0MS
SL-002-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 12 soil samples, 5 sediment samples, and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

SAMPLE DELIVERY GROUP

DE039

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

Sample EB02-SA5B-121410 was identified as an equipment blank. No semivolatile contaminants were found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-002-SA5C-SB-4.0-5.0MS/MSD (SL-002-SA5C-SB-4.0-5.0)	Benzidine	27 (35-141)	-	37 (≤30)	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
LCS/D water (All water samples in SDG DE039)	2-Chlorophenol	-	109 (77-108)	-	J (all detects)	P
	2-Methylphenol	-	102 (64-101)	-	J (all detects)	
	2,4-Dimethylphenol	-	117 (72-110)	-	J (all detects)	
	2,4-Dichlorophenol	-	117 (80-109)	-	J (all detects)	
	2,4,5-Trichlorophenol	-	108 (79-107)	-	J (all detects)	
	Dibenzofuran	-	111 (83-108)	-	J (all detects)	
	1,2-Diphenylhydrazine	-	118 (78-116)	-	J (all detects)	
LCS/D water (All water samples in SDG DE039)	Benzoic acid	-	-	44 (≤30)	J (all detects) UJ (all non-detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0	Benzidine	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE039	EB02-SA5B-121410	2-Chlorophenol 2-Methylphenol 2,4-Dimethylphenol 2,4-Dichlorophenol 2,4,5-Trichlorophenol Dibenzofuran 1,2-Diphenylhydrazine	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	P	Laboratory control samples (%R) (L)
DE039	EB02-SA5B-121410	Benzoic acid	J (all detects) UJ (all non-detects)	P	Laboratory control samples (RPD) (L)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 EB02-SA5B-121410 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J2a VALIDATION COMPLETENESS WORKSHEET

SDG #: DE039

Level IV

Laboratory: Lancaster Laboratories

Date: 5/11/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	Δ	% RSD ≤ 30, 12
IV.	Continuing calibration/ICV	Δ	1CV/CCV ≤ 25
V.	Blanks	Δ	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	SW	10s 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	Δ	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	ND	EB = 3

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-002-SA5C-SB-4.0-5.0 S	11	SL-126-SA5B-SS-0.0-0.5 S	21	SBLKF354	31	
2	SL-002-SA5C-SB-9.0-10.0 ↓	12	SL-129-SA5B-SS-0.0-0.5 ↓	22	SBLKWB350	32	
3	EB02-SA5B-121410 W	13	SL-128-SA5B-SS-0.0-0.5 ↓	23		33	
4	SL-004-SA5C-SB-9.0-10.0 S	14	SED-027-SIV-SD-0.0-0.5 SW	24		34	
5	SL-004-SA5C-SB-4.0-5.0 S	15	SED-026-SIV-SD-0.0-0.5 ↓	25		35	
6	SL-140-SA5C-SB-3.0-4.0 ↓	16	SL-060-SA5C-SB-10.0-11.0 S	26		36	
7	SED-024-SIV-SD-0.0-0.5 SW	17	#1 MS	27		37	
8	SED-023-SIV-SD-0.0-0.5 ↓	18	#1 MS	28		38	
9	SED-022-SIV-SD-0.0-0.5 ↓	19		29		39	
10	SL-125-SA5B-SS-0.0-0.5 S	20		30		40	

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical Holding Times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. DFTPP Performance				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
III. Calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Was a curve fit used for evaluation?	/			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	/			
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ?	/			
IV. Continuing Calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ?	/			
V. Method Blank				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Surrogate %R				
Were all surrogate %R within QC limits?	/			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			/	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			/	
VII. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		/		
VIII. LCS				
Was an LCS analyzed for this SDG?	/			

VALIDATION FINDINGS CHECKLIST

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
Were performance evaluation (PE) samples performed?	☐	☐	☒	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	
Were internal standard area counts within -50% or +100% of the associated calibration standard?	☒	☐	☐	
Were retention times within + 30 seconds from the associated calibration standard?	☒	☐	☐	
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	☒	☐	☐	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	☒	☐	☐	
Were chromatogram peaks verified and accounted for?	☒	☐	☐	
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	☒	☐	☐	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	☒	☐	☒	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?	☒	☐	☒	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	☒	☐	☒	
System performance was found to be acceptable.	☒	☐	☐	
Overall assessment of data was found to be acceptable.	☒	☐	☐	
Field duplicate pairs were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field duplicates.	☐	☐	☒	
Field blanks were identified in this SDG.	☒	☐	☐	
Target compounds were detected in the field blanks.	☐	☒	☐	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA Method 8270)

A. Phenol	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol	III. Benzo(a)pyrene
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene	T. 4-Chloroaniline	II. 4-Nitrophenol	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene	JJ. Dibenzofuran	YY. Fluoranthene	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine	Y. 2,4,6-Trichlorophenol	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT. 1-Methylnaphthalene
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)	FFF. Di-n-octylphthalate	UUU. 1,2-Diphenylhydrazine
N. 2-Nitrophenol	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: FT
2nd Reviewer: 1

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

SPIN N/A

Was a MS/MSD analyzed every 20 samples of each matrix?	N	N/A
--	---	-----

Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

[illegible]

VALIDATION FINDINGS WORKSHEET

Laboratory Control Samples (LCS)

Page: 1 of 2
Reviewer: FT
2nd Reviewer: GA

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y	N	N/A	Was a LCS required?
Y	N	N/A	Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limit?

[illegible]

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_s/C_s)/(A_i/C_i)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A_s = Area of compound,

C_s = Concentration of compound,

S = Standard deviation of the RRFs,

A_i = Area of associated internal standard

C_i = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported		Recalculated		Reported		Recalculated	
				RRF (50 std)	RRF (50 std)	RRF (50 std)	RRF (50 std)	Average RRF (initial)	Average RRF (initial)	Average RRF (initial)	%RSD
1	1CAT wad	1/24/10	Phenol (1st internal standard)	1.845	1.845	1.845	1.845	1.816	1.816	1.816	6
			2-nitrophenol (2nd internal standard)	0.217	0.217	0.217	0.217	0.214	0.214	0.214	3
			3-nitrophenol (3rd internal standard)	0.422	0.422	0.422	0.422	0.408	0.408	0.408	2
			Fluorene (3rd internal standard)	0.194	0.194	0.194	0.194	0.186	0.186	0.186	5
			Pentachlorophenol (4th internal standard)	0.644	0.644	0.644	0.644	0.638	0.638	0.638	1
			Bis(2-ethylhexyl)phthalate (5th internal standard)	1.177	1.177	1.177	1.177	1.141	1.141	1.141	3
2	1CAT wad	1/12/11	Phenol (1st internal standard)	2.133	2.133	2.133	2.133	2.123	2.123	2.123	5
			2-nitrophenol (2nd internal standard)	0.198	0.198	0.198	0.198	0.190	0.190	0.190	8
			3-nitrophenol (3rd internal standard)	0.375	0.375	0.375	0.375	0.343	0.343	0.343	14
			Fluorene (3rd internal standard)	0.163	0.163	0.163	0.163	0.149	0.149	0.149	14
			Pentachlorophenol (4th internal standard)	0.749	0.749	0.749	0.749	0.672	0.672	0.672	14
			Bis(2-ethylhexyl)phthalate (5th internal standard)	1.591	1.591	1.591	1.591	1.323	1.323	1.323	21
3			Phenol (1st internal standard)								
			Naphthalene (2nd internal standard)								
			Fluorene (3rd internal standard)								
			Pentachlorophenol (4th internal standard)								
			Bis(2-ethylhexyl)phthalate (5th internal standard)								
			Benzo(a)pyrene (6th internal standard)								

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 2533725

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

Page: 1 of 1

Reviewer: FT

2nd Reviewer: C

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (A_s / C_s) / (A_{is} / C_{is})$$

Where:

ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

 A_s = Area of compound, A_{is} = Area of associated internal standard C_s = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported		Recalculated		Reported		Recalculated	
					RRF (CC)	%D	RRF (CC)	%D	RRF (CC)	%D	RRF (CC)	%D
1	CEN 8:35	1/14/11	Phenol (1st internal standard) 2-nitrophenol (2nd internal standard) 2-nitrophenol (3rd internal standard) Fluorene (3rd internal standard) Pentachlorophenol (4th internal standard) Bis(2-ethylhexyl)phthalate (5th internal standard) Di-n-octylphthalate (6th internal standard)	2.123	2.109	1	2.109	1	2.109	1	2.109	1
				0.190	0.197	4	0.197	4	0.197	4	0.197	4
				0.343	0.369	8	0.369	8	0.369	8	0.369	8
				0.149	0.142	5	0.142	5	0.142	5	0.142	5
				0.672	0.717	7	0.717	7	0.717	7	0.717	7
				1.323	1.583	5	1.583	5	1.583	5	1.583	5
2	CEN 19:53	1/12/11	Phenol (1st internal standard) 2-nitrophenol (2nd internal standard) 2-nitrophenol (3rd internal standard) Fluorene (3rd internal standard) Pentachlorophenol (4th internal standard) Bis(2-ethylhexyl)phthalate (5th internal standard) Di-n-octylphthalate (6th internal standard)		2.236	5	2.236	5	2.236	5	2.236	5
					0.202	6	0.202	6	0.202	6	0.202	6
					0.389	13	0.389	13	0.389	13	0.389	13
					0.163	9	0.163	9	0.163	9	0.163	9
					0.759	13	0.759	13	0.759	13	0.759	13
					1.642		1.642		1.642		1.642	
3			Phenol (1st internal standard) Naphthalene (2nd internal standard) Fluorene (3rd internal standard) Pentachlorophenol (4th internal standard) Bis(2-ethylhexyl)phthalate (5th internal standard) Benzo(a)pyrene (6th internal standard)									

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337029

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [Signature]

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (A_x)(C_{is}) / (A_{is})(C_x)$$

Where:

ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF

A_x = Area of compound,

A_{is} = Area of associated internal standard

C_x = Concentration of compound,

C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported		Recalculated	
					RRF (CC)	%D	RRF (CC)	%D
1	cen 2153	12/30/10	Phenol (1st internal standard)	1.816	1.700	6	1.70	6
			Naphthalene (2nd internal standard)	0.214	0.210	2	0.210	2
			Fluorene (3rd internal standard)	0.408	0.400	2	0.400	2
			Pentachlorophenol (4th internal standard)	0.186	0.161	14	0.161	14
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.638	0.657	3	0.657	3
			Benzo(a)pyrene (6th internal standard)	1.141	1.222	7	1.222	7
2	cen 2027	12/31/10	Phenol (1st internal standard)	1.851	1.851	2	1.851	2
			Naphthalene (2nd internal standard)	0.217	0.217	1	0.217	1
			Fluorene (3rd internal standard)	0.416	0.416	2	0.416	2
			Pentachlorophenol (4th internal standard)	0.159	0.159	14	0.159	14
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.650	0.650	2	0.650	2
			Benzo(a)pyrene (6th internal standard)	1.191	1.191	4	1.191	4
3	cen		Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J29

VALIDATION FINDINGS WORKSHEET **Surrogate Results Verification**

Page: 1 of 1

Reviewer: FT

2nd reviewer: 2

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	100	82.292	82	82	0
2-Fluorobiphenyl	↓	92.405	92	92	↓
Terphenyl-d14	↓	85.312	85	85	↓
Phenol-d5	200	168.784	84	84	↓
2-Fluorophenol	↓	170.589	85	85	↓
2,4,6-Tribromophenol	↓	184.611	92	92	↓
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 \times (\text{SSC} - \text{SC}) / \text{SA}$ Where: SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added

RPD = $1 \text{ MSC} - \text{MSC} 1 \times 2 / (\text{MSC} + \text{MSDC})$ MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD samples: 17 + 18

Compound	Spike Added		Sample Concentration	Spiked Sample Concentration		Matrix Spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Phenol	1773.05	1773.05	ND	1524.70	1577.35	86	86	89	89	3	3
N-Nitroso-di-n-propylamine				1389.21	1448.60	78	78	82	82	5	5
4-Chloro-3-methylphenol				1576.84	1557.51	89	89	88	88	1	1
Acenaphthene				1718.09	1728.20	97	97	98	98	1	1
Pentachlorophenol				1345.94	1469.03	76	76	83	83	9	9
Pyrene				1727.52	1737.33	97	97	98	98	1	1

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

LDC #: 25 337025

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: / of /

Reviewer: FT

2nd reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y	N	N/A
Y	N	N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_s)(I_s)(V_s)(DF)(2.0)}{(A_{in})(RRF)(V_o)(V_i)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_1 = Volume of extract injected in microliters (ul)

V_t = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. # 6, EEE

$$\text{Conc.} = \frac{(14785 \times 40 \times 1000 \times \dots)}{(654595)(0.672)(30)(0.899)}$$

50 ug/kg

[illegible]

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 13, 2011

Matrix: Soil/Sediment/Water

Parameters: Semivolatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
EB02-SA5B-121410
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-140-SA5C-SB-3.0-4.0
SED-024-SIV-SD-0.0-0.5
SED-023-SIV-SD-0.0-0.5
SED-022-SIV-SD-0.0-0.5
SL-125-SA5B-SS-0.0-0.5
SL-126-SA5B-SS-0.0-0.5
SL-129-SA5B-SS-0.0-0.5
SL-128-SA5B-SS-0.0-0.5
SED-027-SIV-SD-0.0-0.5
SED-026-SIV-SD-0.0-0.5
SL-060-SA5C-SB-10.0-11.0
SL-002-SA5C-SB-4.0-5.0MS
SL-002-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 12 soil samples, 5 sediment samples, and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C using Selected Ion Monitoring (SIM) for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
SBLKWH350	12/17/10	Butylbenzylphthalate	0.06 ug/L	All water samples in SDG DE039

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
EB02-SA5B-121410	Butylbenzylphthalate	0.060 ug/L	1.0U ug/L

Sample EB02-SA5B-121410 was identified as an equipment blank. No semivolatile contaminants were found in this blank with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB02-SA5B-121410	12/14/10	Butylbenzylphthalate Di-n-butylphthalate Diethylphthalate Bis(2-ethylhexyl)phthalate Naphthalene Di-n-octylphthalate	0.060 ug/L 0.15 ug/L 0.12 ug/L 0.16 ug/L 0.027 ug/L 0.083 ug/L	SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-002-SA5C-SB-4.0-5.0MS/MSD (SL-002-SA5C-SB-4.0-5.0)	Diethylphthalate	70 (87-131)	72 (87-131)	-	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
350WHLCS/D (All water samples in SDG DE039)	2-Methylnaphthalene	71 (75-115)	76 (75-115)	-	J (all detects) UJ (all non-detects)	P
	1-Methylnaphthalene	-	69 (71-117)	-		
	Chrysene	75 (76-116)	-	-		
	N-Nitrosodimethylamine	59 (70-130)	58 (70-130)	-		
	Dimethylphthalate	67 (70-130)	71 (70-130)	-		
	Diethylphthalate	67 (70-130)	65 (70-130)	-		
	Fluoranthene	-	67 (75-116)	-		
	Benzo(k)fluoranthene	-	71 (72-122)	-		
	Dibenzo(a,h)anthracene	-	69 (71-125)	-		
354LILCS (All soil and sediment samples in SDG DE039)	Diethylphthalate	63 (68-125)	-	-	J (all detects) UJ (all non-detects)	P
	Fluorene	69 (71-120)	-	-		
	Di-n-butylphthalate	81 (84-132)	-	-		
	Fluoranthene	76 (78-120)	-	-		
	Chrysene	77 (79-120)	-	-		
	Indeno(1,2,3-cd)pyrene	61 (62-141)	-	-		
	Dibenzo(a,h)anthracene	61 (62-142)	-	-		

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0	Diethylphthalate	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE039	EB02-SA5B-121410	2-Methylnaphthalene 1-Methylnaphthalene Chrysene N-Nitrosodimethylamine Dimethylphthalate Diethylphthalate Fluoranthene Benzo(k)fluoranthene Dibenzo(a,h)anthracene	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SL-060-SA5C-SB-10.0-11.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Diethylphthalate Fluorene Di-n-butylphthalate Fluoranthene Chrysene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 EB02-SA5B-121410 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE039

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE039	EB02-SA5B-121410	Butylbenzylphthalate	1.0U ug/L	A	B

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J2b VALIDATION COMPLETENESS WORKSHEET

SDG #: DE039

Level IV

Laboratory: Lancaster Laboratories

SUOA

Date: 5/10/11

Page: 1 of 1

Reviewer: AF

2nd Reviewer: AF

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	% PSD ≤ 30
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 25
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	SW	
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	SW	EB = 3

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

12	SL-002-SA5C-SB-4.0-5.0 S	11	SL-126-SA5B-SS-0.0-0.5 S	21	SBLKWH3509	31	
2	SL-002-SA5C-SB-9.0-10.0 S	12	SL-129-SA5B-SS-0.0-0.5	22	SBLKLI354	32	
3	EB02-SA5B-121410 W	13	SL-128-SA5B-SS-0.0-0.5	23		33	
4	SL-004-SA5C-SB-9.0-10.0 S	14	SED-027-SIV-SD-0.0-0.5 SW	24		34	
5	SL-004-SA5C-SB-4.0-5.0 S	15	SED-026-SIV-SD-0.0-0.5	25		35	
6	SL-140-SA5C-SB-3.0-4.0 S	16	SL-060-SA5C-SB-10.0-11.0 S	26		36	
7	SED-024-SIV-SD-0.0-0.5 SW	17	#1 MS	27		37	
8	SED-023-SIV-SD-0.0-0.5	18	#1 MSD	28		38	
9	SED-022-SIV-SD-0.0-0.5	19		29		39	
10	SL-125-SA5B-SS-0.0-0.5 S	20		30		40	

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
Were the DFTPP performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Was a curve fit used for evaluation?		/		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?			/	
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ?	/			
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ?	/			
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/			
Were all surrogate %R within QC limits?	/			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			/	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			/	
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		/		
Was an LCS analyzed for this SDG?	/			

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☐	☒	☐	
Were performance evaluation (PE) samples performed?	☐	☐	☒	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	
Were internal standard area counts within -50% or +100% of the associated calibration standard?	☒	☐	☐	
Were retention times within + 30 seconds from the associated calibration standard?	☒	☐	☐	
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	☒	☐	☐	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	☒	☐	☐	
Were chromatogram peaks verified and accounted for?	☒	☐	☐	
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	☒	☐	☐	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	☐	☐	☒	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?	☐	☐	☒	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	☐	☐	☒	
System performance was found to be acceptable.	☒	☐	☐	
Overall assessment of data was found to be acceptable.	☒	☐	☐	
Field duplicate pairs were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field duplicates.	☐	☐	☒	
Field blanks were identified in this SDG.	☒	☐	☐	
Target compounds were detected in the field blanks.	☒	☐	☐	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA Method 8270)

A. Phenol	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol	III. Benzo(a)pyrene
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene	T. 4-Chloroaniline	II. 4-Nitrophenol	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene	JJ. Dibenzofuran	YY. Fluoranthene	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine	Y. 2,4,6-Trichlorophenol	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT. 1-Methylnaphthalene
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)	FFF. Di-n-octylphthalate	UUU.
N. 2-Nitrophenol	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

✓	N	N/A	Was a method blank analyzed for each matrix?
Y	N	N/A	Was a method blank associated with every sample?
Y	N	N/A	Was the blank contaminated? If yes, please see qualification below.

Blank extraction date: 2/17/10 Blank analysis date: wg L
 Conc. units: ug L Associated Samples: All water (B)

Conc. units: $\mu\text{g/L}$

[illegible]

Cont'd

[illegible]

VALIDATION FINDINGS WORKSHEET

Field Blanks

LDC #: 25337526
SDG #: per cover

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y	N	N/A

Y/N	N/A	Were target compounds detected in the field blanks?

Blank units: ug/L Associated sample units: ug/kg
Sampling date: 12/14/10

Sampling date: 6/12/14 10

Field blank type: (circle one) Field Blank / Rinsate / Other: FB[illegible]

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:

Common contaminants such as the phthalates and TICs noted above that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

☒ N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y/N	N/A	Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?
Y	N	N/A

[illegible]

VALIDATION FINDINGS WORKSHEET

Laboratory Control Samples (LCS)

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Study	Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?
✓ N	N/A

[illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_s/C_{is})/(A_u/C_u)$
average RRF = sum of the RRFs/number of standards
 $\%RSD = 100 * (S/X)$

A_s = Area of compound,
 C_{is} = Concentration of compound,
 S = Standard deviation of the RRFs,
 A_u = Area of associated internal standard
 C_u = Concentration of internal standard
 X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported		Recalculated		Reported		Recalculated	
				RRF (1 std)	RRF (1 std)	RRF (1 std)	RRF (1 std)	Average RRF (initial)	Average RRF (initial)	Average RRF (initial)	%RSD
1	1CAL	1/4/11	Phenol (1st internal standard)	1.134	1.134	1.134	1.134	1.149	1.149	1.149	7
			Naphthalene (2nd internal standard)	1.329	1.329	1.329	1.329	1.363	1.363	1.363	6
			Fluorene (3rd internal standard)	1.228	1.228	1.228	1.228	1.212	1.212	1.212	7
			Pentachlorophenol (4th internal standard)	1.238	1.238	1.238	1.238	1.287	1.287	1.287	6
			Bis(2-ethylhexyl)phthalate (5th internal standard)	1.254	1.254	1.254	1.254	1.268	1.268	1.268	8
			Benzo(a)pyrene (6th internal standard)								
2			Phenol (1st internal standard)								
			Naphthalene (2nd internal standard)								
			Fluorene (3rd internal standard)								
			Pentachlorophenol (4th internal standard)								
			Bis(2-ethylhexyl)phthalate (5th internal standard)								
			Benzo(a)pyrene (6th internal standard)								
3			Phenol (1st internal standard)								
			Naphthalene (2nd internal standard)								
			Fluorene (3rd internal standard)								
			Pentachlorophenol (4th internal standard)								
			Bis(2-ethylhexyl)phthalate (5th internal standard)								
			Benzo(a)pyrene (6th internal standard)								

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25 33726

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [Signature]

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 \times (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (A_x)(C_b) / (A_b)(C_x)$$

Where:

ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

A_x = Area of compound,

C_x = Concentration of compound,

A_b = Area of associated internal standard

C_b = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported		Recalculated	
					RRF (CC)	%D	RRF (CC)	%D
1	cen 15:4X	1/4/11	Phenol (4th internal standard)					
			Naphthalene (2nd internal standard)	1.149	1.110	3	1.110	3
			Fluorene (3rd internal standard)	1.363	1.330	2	1.330	2
			Pentachlorophenol (4th internal standard)	1.212	1.164	4	1.164	4
			Bis(2-ethylhexyl)phthalate (5th internal standard)	1.287	1.214	6	1.214	6
			Benzo(a)pyrene (6th internal standard)	1.76X	1.235	3	1.235	3
2			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J26

VALIDATION FINDINGS WORKSHEET **Surrogate Results Verification**

Page: 1 of 1

Reviewer: FT

2nd reviewer: 20

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$ Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	1.0	0.693	69	69	0
2-Fluorobiphenyl	↓	0.647	64	64	↓
Terphenyl-d14	↓	0.754	75	75	↓
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC - SC) / SA$ Where: SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added

RPD = $100 * MSC - MSC1 * 2 / (MSC + MSC2)$ MSC = Matrix spike concentration MSC2 = Matrix spike duplicate concentration

MS/MSD samples: 17 + 18

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Phenol											
N-Nitroso-di-n-propylamine											
4-Chloro-3-methylphenol											
Acenaphthene	35.46	35.46	ND	26.68	27.46	75	75	77	77	3	3
Pentachlorophenol											
Pyrene	35.46	35.46	ND	27.41	28.50	77	77	80	80	4	4

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 * (\text{SC/SA})$$

Where: SSC = Spike concentration
SA = Spike added

$$RPD = |LCSC - LCSDC| * 2 / (LCSC + LCSDC)$$

LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples:	yes	no	water

[illegible]

Comments: Refer to Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J2b

VALIDATION FINDINGS WORKSHEET

Page: 1 of 1

Reviewer: FT

2nd reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y	N	N/A
---	---	-----

Were all reported results recalculated and verified for all level IV samples?

Y	N	N/A
---	---	-----

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_s)(L_s)(V_s)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_l)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_t = Volume of extract injected in microliters (ul)

V_t = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #2, Chryseol

$$\text{Conc.} = \frac{(7001) \times 1.0 \times 1000}{531446 \times 1.287 \times 30 \times 0.833}$$

11

0.41 ug/kg

[illegible]

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 10, 2011

Matrix: Soil

Parameters: N-Nitrosodimethylamine

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-060-SA5C-SB-10.0-11.0
SL-002-SA5C-SB-4.0-5.0MS
SL-002-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 7 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1625C for N-Nitrosodimethylamine.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% .

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% .

The percent difference (%D) of the second source calibration standard were less than or equal to 30.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No N-nitrosodimethylamine was found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory

N-Nitrosodimethylamine - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory

N-Nitrosodimethylamine - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory

N-Nitrosodimethylamine - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J2c **VALIDATION COMPLETENESS WORKSHEET**
SDG #: DE039 Level IV
Laboratory: Lancaster Laboratories

Date: 5/10/11
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS N-Nitrosodimethylamine (EPA Method 1625C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: <u>12/14/10</u>
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration	Δ	$\% \text{ PSD} \leq 30$
IV.	Continuing calibration/ICV	Δ	$\text{ICV} \leq 30$ $\text{CCV} \leq 20$
V.	Blanks	Δ	
VI.	Surrogate spikes	Δ	
VII.	Matrix spike/Matrix spike duplicates	Δ	
VIII.	Laboratory control samples	Δ	
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	Δ	
XI.	Target compound identification	Δ	
XII.	Compound quantitation/CRQLs	Δ	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	Δ	
XV.	Overall assessment of data	Δ	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

<u>soil</u>						
1	SL-002-SA5C-SB-4.0-5.0	11	<u>SBLKLB341</u>	21		31
2	SL-002-SA5C-SB-9.0-10.0	12		22		32
3	SL-004-SA5C-SB-9.0-10.0	13		23		33
4	SL-004-SA5C-SB-4.0-5.0	14		24		34
5	SL-060-SA5C-SB-10.0-11.0	15		25		35
6	#1 MS	16		26		36
7	#1 MS	17		27		37
8		18		28		38
9		19		29		39
10		20		30		40

LDC #: 25337J2C

VALIDATION FINDINGS CHECKLIST

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Reviewer: FT

2nd Reviewer: A

1625C

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
Were the DFTPP performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			/	
Was a curve fit used for evaluation?		/		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?			/	
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) ≥ 0.05 ?	/			
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			/	
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ?	/			
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
Were all surrogate %R within QC limits?	/			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			/	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			/	
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
Was an LCS analyzed for this SDG?	/			

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
Were performance evaluation (PE) samples performed?	☐	☐	☒	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	
Were internal standard area counts within -50% or +100% of the associated calibration standard?	☒	☐	☐	
Were retention times within + 30 seconds from the associated calibration standard?	☒	☐	☐	
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	☒	☐	☐	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	☒	☐	☐	
Were chromatogram peaks verified and accounted for?	☒	☐	☐	
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	☒	☐	☐	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	☐	☐	☒	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?	☐	☐	☒	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	☐	☐	☒	
System performance was found to be acceptable.	☒	☐	☐	
Overall assessment of data was found to be acceptable.	☒	☐	☐	
Field duplicate pairs were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field duplicates.	☐	☐	☒	
Field blanks were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field blanks.	☐	☐	☒	

METHOD: GC/MS BNA (EPA SW-846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_s/C_s)/(A_{is}/C_{is})$$

average RRF = sum of the RRFs/number of standards
$$\%RSD = 100 \cdot (S/X)$$

$$A_s = \text{Area of compound,}$$

$$C_s = \text{Concentration of compound,}$$

$$S = \text{Standard deviation of the RRFs,}$$

$$A_{is} = \text{Area of associated internal standard}$$

$$C_{is} = \text{Concentration of internal standard}$$

$$X = \text{Mean of the RRFs}$$

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported		Recalculated		Reported		Recalculated	
				RRF (25 std)	RRF (25 std)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD		
1	ICAL	1/5/11	NDMA Phenol (1st internal standard)	1.044	1.044	1.125	1.125	7	7		
			Naphthalene (2nd internal standard)								
			Fluorene (3rd internal standard)								
			Pentachlorophenol (4th internal standard)								
			Bis(2-ethylhexyl)phthalate (5th internal standard)								
			Benzo(a)pyrene (6th internal standard)								
2			Phenol (1st internal standard)								
			Naphthalene (2nd internal standard)								
			Fluorene (3rd internal standard)								
			Pentachlorophenol (4th internal standard)								
			Bis(2-ethylhexyl)phthalate (5th internal standard)								
			Benzo(a)pyrene (6th internal standard)								
3			Phenol (1st internal standard)								
			Naphthalene (2nd internal standard)								
			Fluorene (3rd internal standard)								
			Pentachlorophenol (4th internal standard)								
			Bis(2-ethylhexyl)phthalate (5th internal standard)								
			Benzo(a)pyrene (6th internal standard)								

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J2C

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

Page: 1 of 1

Reviewer: FT

2nd Reviewer: [Signature]

1625C

METHOD: GC/MS BNA (EPA SW-846 Method 8270G)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (A_x)(C_s) / (A_s)(C_x)$$

Where:

ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

 A_x = Area of compound, A_s = Area of associated internal standard C_x = Concentration of compound, C_s = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported		Recalculated	
					RRF (CC)	%D	RRF (CC)	%D
1	0011645	1/5/11	NONA Phenol (1st internal standard)	1.17504	1.08931	3.17611	1.08931	3.17611
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzodibenzene (6th internal standard)					
2	00119100	1/5/11	NONA Phenol (1st internal standard)	↓	1.05338	6.36946	1.05338	6.36946
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzodibenzene (6th internal standard)					
3	00122109	1/5/11	NONA Phenol (1st internal standard)	↓	1.04698	6.93799	1.04698	6.93799
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzodibenzene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CONCL:2S

LDC #: 25 337J 2 C

VALIDATION FINDINGS WORKSHEET

Page: / of /

Surrogate Results Verification

Reviewer: FT

2nd reviewer: A

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5 NDMA -dlc	25.0	25.742	101	101	0
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

1625 C

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC - SC) / SA$ Where: SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added

RPD = $100 * MSC / (MSC + MSDC)$ MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD samples: 6 + 7

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol											
N-Nitroso-di-n-propylamine											
4-Chloro-3-methylphenol											
Acenaphthene											
Pentachlorophenol											
Pyrene											
NDA	886.52	886.52	111.63	941.47	894.26	94	94	88	88	6	6

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

LDC #: 253372C Page: 1 of 1
 Reviewer: FT
 2nd Reviewer: A

1625C

METHOD: GC/MS-BNA (EPA-SW-846-Method-8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 * (SC/SA)$$

Where: SSC = Spike concentration
 SA = Spike added

$$RPD = |LCS - LCSDC| * 2 / (LCS + LCSDC)$$

LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: 105

Compound	Spike Added (ug/kg)		Spike Concentration (ug/kg)		LCS		LCSD		Percent Recovery		Percent Recovery		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalc	Reported	Recalc	Reported	Recalc
Phenol														
N-Nitroso-di-n-propylamine														
4-Chloro-3-methylphenol														
Acenaphthene														
Pentachlorophenol														
Pyrene														
NDMA	833.33	ND	832.82	NA	100	100	NA		NA					

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25 337J2C

VALIDATION FINDINGS WORKSHEET

Page: 1 of 1

Reviewer: FT

2nd reviewer: 

~~METHOD: GC/MS BNA (EPA SW-846 Method 8270)~~

Y	N	N/A
Y	N	N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_s)(I_s)(V_s)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_l)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_t = Volume of the concentrated extract in microliters (μ l)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #1, NDMA

$$\text{Conc.} = \frac{(22192) \times 25 \times 1000}{156650 \times 1.125 \times 30 \times 0.938}$$

$$= 111.87 \text{ ng/kg}$$
[illegible]

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 12, 2011

Matrix: Soil/Sediment/Water

Parameters: Chlorinated Pesticides

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

EB02-SA5B-121410
SED-024-SIV-SD-0.0-0.5
SED-023-SIV-SD-0.0-0.5
SED-022-SIV-SD-0.0-0.5
SL-125-SA5B-SS-0.0-0.5
SL-126-SA5B-SS-0.0-0.5
SL-129-SA5B-SS-0.0-0.5
SL-128-SA5B-SS-0.0-0.5
SED-027-SIV-SD-0.0-0.5
SED-026-SIV-SD-0.0-0.5

Introduction

This data review covers 4 soil samples, 5 sediment samples, and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8081A for Chlorinated Pesticides.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
12/24/10	2P6356.05RCCV	RTXCLP1	Endosulfan II	21.5	All water samples in SDG DE039	J (all detects) UJ (all non-detects)	A
12/24/10	2P6356.05RCCV	RTXCLP2	4,4'-DDT	24.8	All water samples in SDG DE039	J (all detects) UJ (all non-detects)	A
12/29/10	1P10363.61CCV	RTXCLP1	Endosulfan I Dieldrin Endrin Endosulfan II 4,4'-DDT Endrin aldehyde Methoxychlor Endosulfan sulfate Endrin ketone	28.6 26.4 27.1 30.2 46.3 28.7 40.0 24.6 36.3	SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	A

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
12/29/10	1P10363.61CCV	RTXCLP2	Heptachlor epoxide Endosulfan I Dieldrin Endrin Endosulfan II 4,4'-DDT Endrin aldehyde Endosulfan sulfate Methoxychlor Endrin ketone	20.5 26.7 25.6 31.6 33.2 47.4 26.7 26.1 41.4 26.5	SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	P
12/29/10	1P10363.61CCV	RTXCLP2	4,4'-DDE	23.6	SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	P
12/29/10	1P10363.62CCV	RTXCLP1	Mirex	29.6	SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	A
12/29/10	1P10363.62CCV	RTXCLP2	Mirex	27.6	SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	P

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

The individual 4,4'-DDT and Endrin breakdowns (%BD) were less than or equal to 15.0% with the following exceptions:

Date	Standard ID	Column	Compound	%BD	Associated Samples	Affected Compounds	Flag	A or P
12/29/10	1P10363.60 PEM	RTXCLP1	4,4'-DDT	16.2	SL-129-SA5B-SS-0.0-0.5	4,4'-DDT	J (all detects) UJ (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

Sample EB02-SA5B-121410 was identified as an equipment blank. No chlorinated pesticide contaminants were found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
LCS/D water (All water samples in SDG DE039)	4,4'-DDE	-	137 (66-130)	-	J (all detects)	P
LCS/D soil (All soil and sediment samples in SDG DE039)	Methoxychlor	131 (59-125)	-	-	J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

All target compound identifications were within validation criteria.

XIII. Compound Quantitation and Reported CRQLs

All compound quantitation and CRQLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
SED-024-SIV-SD-0.0-0.5	delta-BHC Heptachlor	60.48 46.10	J (all detects) J (all detects)	A
SED-023-SIV-SD-0.0-0.5	delta-BHC	49.61	J (all detects)	A
SED-022-SIV-SD-0.0-0.5	gamma-BHC delta-BHC 4,4'-DDT Endrin aldehyde	47.81 74.31 89.72 92.84	J (all detects) J (all detects) J (all detects) J (all detects)	A
SL-126-SA5B-SS-0.0-0.5	delta-BHC	75.53	J (all detects)	A
SL-129-SA5B-SS-0.0-0.5	gamma-BHC delta-BHC Dieldrin Endrin aldehyde	41.39 64.77 70.67 65.22	J (all detects) J (all detects) J (all detects) J (all detects)	A
SED-026-SIV-SD-0.0-0.5	alpha-BHC	56.90	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Chlorinated Pesticides - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	EB02-SA5B-121410	Endosulfan II 4,4'-DDT	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE039	SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Endosulfan I Dieldrin Endrin Endosulfan II 4,4'-DDT Endrin aldehyde Methoxychlor Endosulfan sulfate Endrin ketone Mirex	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE039	SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Heptachlor epoxide Endosulfan I Dieldrin Endrin Endosulfan II 4,4'-DDT Endrin aldehyde Endosulfan sulfate Methoxychlor Endrin ketone Mirex	J (all detects) UJ (all non-detects)	P	Continuing calibration (%D) (C)
DE039	SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	4,4'-DDE	J (all detects) UJ (all non-detects)	P	Continuing calibration (%D) (C)
DE039	SL-129-SA5B-SS-0.0-0.5	4,4'-DDT	J (all detects) UJ (all non-detects)	A	Continuing calibration (PEM %D) (M)
DE039	EB02-SA5B-121410	4,4'-DDE	J (all detects)	P	Laboratory control samples (%R)(L)
DE039	SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Methoxychlor	J (all detects)	P	Laboratory control samples (%R)(L)
DE039	SED-024-SIV-SD-0.0-0.5	delta-BHC Heptachlor	J (all detects) J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE039	SED-023-SIV-SD-0.0-0.5 SL-126-SA5B-SS-0.0-0.5	delta-BHC	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SED-022-SIV-SD-0.0-0.5	gamma-BHC delta-BHC 4,4'-DDT Endrin aldehyde	J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE039	SL-129-SA5B-SS-0.0-0.5	gamma-BHC delta-BHC Dieldrin Endrin aldehyde	J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE039	SED-026-SIV-SD-0.0-0.5	alpha-BHC	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE039	EB02-SA5B-121410 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory

Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory

Chlorinated Pesticides - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

METHOD: GC Chlorinated Pesticides (EPA SW846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	GC/ECD Instrument Performance Check	SW	see CV
III.	Initial calibration	A	% RSD ≤ 20 , 1 ²
IV.	Continuing calibration/ICV	SW	1CV / 1CV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	N	client specified
VIII.	Laboratory control samples	SW	was ID
IX.	Regional quality assurance and quality control	N	
X.	Florissil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	A	
XIII.	Compound quantitation and reported CRQLs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	NP	EB = 1

Note: A = Acceptable ND = No compounds detected D = Duplicate
N = Not provided/applicable R = Rinsate TB = Trip blank
SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: sed soil, water

1	EB02-SA5B-121410	W	11	PBLK16320	21		31	
2	SED-024-SIV-SD-0.0-0.5	sed	12	2 PBLK 29351	22		32	
3	SED-023-SIV-SD-0.0-0.5	↓	13		23		33	
4	SED-022-SIV-SD-0.0-0.5	↓	14		24		34	
5	SL-125-SA5B-SS-0.0-0.5	S	15		25		35	
6	SL-126-SA5B-SS-0.0-0.5	↓	16		26		36	
7	SL-129-SA5B-SS-0.0-0.5	↓	17		27		37	
8	SL-128-SA5B-SS-0.0-0.5	↓	18		28		38	
9	SED-027-SIV-SD-0.0-0.5	sed	19		29		39	
10	SED-026-SIV-SD-0.0-0.5	↓	20		30		40	

Notes: _____

LDC #: 2533713a
 SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: PF
 2nd Reviewer: C

Method: Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. GC/ECD instrument performance check				
Was the instrument performance found to be acceptable?	☒	☐	☐	
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) $\leq 20\%$?	☒	☐	☐	
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	☒	☐	☐	
Did the initial calibration meet the curve fit acceptance criteria?	☒	☐	☐	
Were the RT windows properly established?	☒	☐	☐	
Were the required standard concentrations analyzed in the initial calibration?	☒	☐	☐	
IV. Continuing calibration				
What type of continuing calibration calculation was performed? ____%D or ____%R	☒	☐	☐	
Were Evaluation mix standards analyzed prior to the initial calibration and sample analysis?	☒	☐	☐	
Were endrin and 4,4'-DDT breakdowns $\leq 15\%$ for individual breakdown in the Evaluation mix standards?	☐	☒	☐	
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) $\leq 15\%$ or percent recoveries $85-115\%$?	☐	☒	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Were extract cleanup blanks analyzed with every batch requiring clean-up?	☐	☐	☒	
Was there contamination in the method blanks or clean-up blanks? If yes, please see the Blanks validation completeness worksheet.	☒	☐	☐	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	☒	☒	☐	
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	☒	☐	☐	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	☐	☐	☒	

LDC #: 2533713
SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: [Signature]
2nd Reviewer: [Signature]

Validation Area	Yes	No	NA	Findings/Comments
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			/	
Was a MS/MSD analyzed every 20 samples of each matrix?			/	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			/	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		/		
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			/	
Were the performance evaluation (PE) samples within the acceptance limits?			/	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	/			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions, dry weight factors, and clean-up activities applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.			/	
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		/		
Target compounds were detected in the field duplicates.			/	
XV. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.		/		

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II.
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ.
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK.
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL.
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM.
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:

LDC #: 2533713a

VALIDATION FINDINGS WORKSHEET

Continuing Calibration

Page: / of /
Reviewer: FT

METHOD: GC HPLC

2nd Reviewer: A

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

What type of continuing calibration calculation was performed? %D or RPD

Y/N N/A Were continuing calibration standards analyzed at the required frequencies?

Y/N N/A Did the continuing calibration standards meet the %D / RPD validation criteria of $\leq 15.0\%$?

Level IV Only

Y/N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D / RPD (Limit $\leq 15.0\%$)	RT (limit)	Associated Samples	Qualifications
12/24/10	2PG356.05R cu	RTX cuP1	L	21.5	()	()	all water	JW/A (C)
		RTX cuP2	0	24.8	()	()		
					()	()		
12/29/10	1P10363.80PEM (breakdown)	RTX cuP1	0	16.2	($\leq 15\%$)	()	PAK 29351, 2, 3, 4, 5, 6	no qual ND
					()	()		
					()	()		
12/29/10	1P10363.61- cu	RTX cuP1	H	24.6	()	()	7, 8, 9, 10	JW/A (C)
			I	26.4	()	()		
			K	27.1	()	()		
			L	30.2	()	()		
			0	46.3	()	()		
			R	28.7	()	()		
			P	40.0	()	()		
			N	24.6	()	()		
			R	36.3	()	()		
		RTX cuP2	G	20.5	()	()	7, 8, 9, 10	JW/P (C)
			H	26.7	()	()		
			J	23.6	()	()	8, 9, 10	
			I	25.6	()	()	7, 8, 9, 10	
			K	31.6	()	()		
			L	33.2	()	()		
			0	47.4	()	()		

Are surrogates required by the method? Yes 4 or No

Were surrogates spiked into all samples and blanks?

Y/N N/A

SURNew.wpd

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

METHOD: GC HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Y/N N/A

Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?

Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	% RPD	But 2 columns	Finding	Associated Samples	Qualifications
	C			60.48	2	J/A det (* X 111)
	E			46.10	↓	
	C			49.61	3	
	D			47.81	4	
	C			74.31		
	D			89.72		
	R			92.84		
	C			75.53	6	
	D			41.39	7	
	C			64.77	↓	
	I			70.67		
	R			65.22	↓	✓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 25 337J 3c
SDG #: JLL each

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: JPB
2nd Reviewer: A

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = $100 \cdot (S/X)$
A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				CF (10 ³ /std)	CF (10 ³ /std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD
1	1CA L IP6356	12/22/10	endosulfan 1 methoxychlor RTX exp 1 ↓ RTX exp 2 ↓	5.13 x 10 ² 1.60 x 10 ² 5.14 x 10 ³ 1.22 x 10 ³	5.13 x 10 ² 1.60 x 10 ² 5.14 x 10 ³ 1.22 x 10 ³	5.20 x 10 ² 1.66 x 10 ² 5.23 x 10 ³ 1.25 x 10 ³	5.20 x 10 ² 1.66 x 10 ² 5.23 x 10 ³ 1.25 x 10 ³	2.5 4.7 4.0 3.5	2.5 4.7 4.0 3.5
2									
3	1CA L IP10363	12/29/10	RTX exp 1 ↓ RTX exp 2 ↓	4.10 x 10 ³ 1.11 x 10 ³ 1.92 x 10 ³ 7.65 x 10 ²	4.10 x 10 ³ 1.11 x 10 ³ 1.92 x 10 ³ 7.65 x 10 ²	4.19 x 10 ³ 1.13 x 10 ³ 1.99 x 10 ³ 7.85 x 10 ²	4.19 x 10 ³ 1.13 x 10 ³ 1.99 x 10 ³ 7.85 x 10 ²	2.8 5.2 4.6 7.0	2.8 5.2 4.6 7.0
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J3c
SDG #: for conch

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = $100 \cdot (S/X)$
A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				CF (std)	CF (std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD
1	ICAL	1/7/11	endosulfan	3.78×10^3	3.78×10^3	3.95×10^3	3.95×10^3	3.8	3.8
			methoxychlor	1.08×10^3	1.08×10^3	1.14×10^3	1.14×10^3	8.7	8.7
				1.82×10^3	1.82×10^3	1.92×10^3	1.92×10^3	4.9	4.9
2		1/12/11		7.39×10^2	7.39×10^2	7.83×10^2	7.83×10^2	8.9	8.9
				3.98×10^3	3.98×10^3	4.23×10^3	4.23×10^3	3.9	3.9
				1.06×10^3	1.06×10^3	1.14×10^3	1.14×10^3	7.1	7.1
3				2.20×10^3	2.20×10^3	2.30×10^3	2.30×10^3	3.0	3.0
				4.74×10^2	4.74×10^2	5.10×10^2	5.10×10^2	5.4	5.4
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J32
SDG #: per can

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \times (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = initial calibration average CF
CF = A/C CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	2PG3865R	12/24/10	endosulfan 1 methoxychlor ↓ RTXcup1 RTXcup2	10.0 100.0 ↓	8.63 87.94 9.05 94.52	13.7 12.1 9.5 5.5	8.63 87.94 9.05 94.52	13.7 12.1 9.5 5.5
2								
3	1P10363.6	12/29/10	↓ RTXcup1 ↓ RTXcup2 ↓	10.0 100 10.0 100	7.14 60.01 7.33 58.61	28.6 40.0 26.7 41.4	7.14 60.01 7.33 58.61	28.6 40.0 26.7 41.4
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25 337J 3RSDG #: per coner

VALIDATION FINDINGS WORKSHEET

Surrogate Results Verification

Page: 1 of 1Reviewer: PN2nd reviewer: C

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$ Where: SF = Surrogate Found
SS = Surrogate SpikedSample ID: #2

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene	RTXCLP1	104	0.923717	89	89	0
Tetrachloro-m-xylene	RTXCLP2	↓	0.898354	86	86	↓
Decachlorobiphenyl	↓	1.0	0.192945	19	19	↓
Decachlorobiphenyl	↓	↓	1.493997	143	143	↓

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Notes: _____

LDC #: 25337132

SDG #: per contract

VALIDATION FINDINGS WORKSHEET

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 6 of 7
Reviewer: PS
2nd Reviewer: 1

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100^* (\text{SSC-SC})/\text{SA}$$

Where: SSC = Spiked sample concentration
SA = Spike added

SC = Concentration

$$RPD = |LCS - LCSD| * 2 / (LCS + LCSD)$$

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: les | D wavy

[illegible]

Comments: Refer to Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J3a
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [signature]
2nd reviewer: [signature]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Y N N/A
Y N N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Example:

Sample I.D. #2 delta-BHC

$$\text{Conc.} = \frac{(5814)(10000)(2)}{(2.38 \times 10^3)(60)(0.872)(1000)}$$
$$= 0.9338 \text{ ug/kg}$$

#	Sample ID	Compound	Reported Concentration ()	Calculated Concentration ()	Qualification

Note: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 12, 2011

Matrix: Soil/Sediment/Water

Parameters: Polychlorinated Biphenyls

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
EB02-SA5B-121410
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-140-SA5C-SB-3.0-4.0
SED-024-SIV-SD-0.0-0.5
SED-023-SIV-SD-0.0-0.5
SED-022-SIV-SD-0.0-0.5
SL-125-SA5B-SS-0.0-0.5
SL-126-SA5B-SS-0.0-0.5
SL-129-SA5B-SS-0.0-0.5
SL-128-SA5B-SS-0.0-0.5
SED-027-SIV-SD-0.0-0.5
SED-026-SIV-SD-0.0-0.5
SL-060-SA5C-SB-10.0-11.0

Introduction

This data review covers 10 soil samples, 5 sediment samples, and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were evaluated and considered technically acceptable.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent difference (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

Sample EB02-SA5B-121410 was identified as an equipment blank. No polychlorinated biphenyl contaminants were found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
SL-002-SA5C-SB-4.0-5.0	Not specified	Decachlorobiphenyl	121 (45-120)	All TCL compounds	J (all detects)	P
SED-024-SIV-SD-0.0-0.5	Not specified	Decachlorobiphenyl	142 (45-120)	All TCL compounds	J (all detects)	P
SED-023-SIV-SD-0.0-0.5	Not specified	Decachlorobiphenyl	132 (45-120)	All TCL compounds	J (all detects)	P
SL-125-SA5B-SS-0.0-0.5	Not specified	Decachlorobiphenyl	127 (45-120)	All TCL compounds	J (all detects)	P
SL-126-SA5B-SS-0.0-0.5	Not specified	Decachlorobiphenyl	151 (45-120)	All TCL compounds	J (all detects)	P
SED-027-SIV-SD-0.0-0.5	Not specified	Decachlorobiphenyl	155 (45-120)	All TCL compounds	J (all detects)	P
SED-026-SIV-SD-0.0-0.5	Not specified	Decachlorobiphenyl Tetrachloro-m-xylene	185 (45-120) 195 (53-139)	All TCL compounds	J (all detects)	P
SL-060-SA5C-SB-10.0-11.0	Not specified	Decachlorobiphenyl	151 (45-120)	All TCL compounds	J (all detects)	P

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Affected Compounds	Flag	A or P
LCS/D water (All water samples in SDG DE039)	Aroclor 5442	58 (75-125)	56 (75-125)	-	Aroclor 5432 Aroclor 5442 Aroclor 5460	J (all detects) UJ (all non-detects)	P
LCS/D soil (All soil and sediment samples in SDG DE039)	Aroclor 5442	58 (75-125)	55 (75-125)	-	Aroclor 5432 Aroclor 5442 Aroclor 5460	J (all detects) UJ (all non-detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

All target compound identifications were within validation criteria.

XIII. Compound Quantitation and Reported CRQLs

All compound quantitation and CRQLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
SED-024-SIV-SD-0.0-0.5	PCB-1254 PCB-1260	77.02 46.31	J (all detects) J (all detects)	A
SED-023-SIV-SD-0.0-0.5	PCB-1254 PCB-1260	77.34 58.29	J (all detects) J (all detects)	A
SL-125-SA5B-SS-0.0-0.5	PCB-1254	56.93	J (all detects)	A
SL-126-SA5B-SS-0.0-0.5	PCB-1260	74.88	J (all detects)	A
SED-027-SIV-SD-0.0-0.5	PCB-1254	48.24	J (all detects)	A
SED-026-SIV-SD-0.0-0.5	PCB-1254	54.02	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	All TCL compounds	J (all detects)	P	Surrogate spikes (%R) (S)
DE039	EB02-SA5B-121410 SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SL-060-SA5C-SB-10.0-11.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Aroclor 5432 Aroclor 5442 Aroclor 5460	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE039	SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5	PCB-1254 PCB-1260	J (all detects) J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE039	SL-125-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	PCB-1254	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE039	SL-126-SA5B-SS-0.0-0.5	PCB-1260	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 EB02-SA5B-121410 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

**Santa Susana Field Laboratory
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG
DE039**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG DE039**

No Sample Data Qualified in this SDG

LDC #: 25337J3b **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE039

Level IV

Laboratory: Lancaster Laboratories

Date: 5/11/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	GC/ECD Instrument Performance Check	NA	
III.	Initial calibration	A	% PSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	N	client specified
VIII.	Laboratory control samples	SW	see ID
IX.	Regional quality assurance and quality control	N	
X.	Florisol cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	A	
XIII.	Compound quantitation and reported CRQLs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	ND	EB = 3

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

11	SL-002-SA5C-SB-4.0-5.0	Sw	11	SL-126-SA5B-SS-0.0-0.5	S	21	PBLK19354	31	
2	SL-002-SA5C-SB-9.0-10.0	↓	12	SL-129-SA5B-SS-0.0-0.5	↓	22	PBLK17350	32	
3	EB02-SA5B-121410	W	13	SL-128-SA5B-SS-0.0-0.5	↓	23		33	
4	SL-004-SA5C-SB-9.0-10.0	S	14	SED-027-SIV-SD-0.0-0.5	Sw	24		34	
5	SL-004-SA5C-SB-4.0-5.0	↓	15	SED-026-SIV-SD-0.0-0.5	↓	25		35	
6	SL-140-SA5C-SB-3.0-4.0	↓	16	SL-060-SA5C-SB-10.0-11.0		26		36	
7	SED-024-SIV-SD-0.0-0.5	Sw	17			27		37	
8	SED-023-SIV-SD-0.0-0.5	↓	18			28		38	
9	SED-022-SIV-SD-0.0-0.5	↓	19			29		39	
10	SL-125-SA5B-SS-0.0-0.5	S	20			30		40	

Notes:

LDC #: 2533713b
 SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: FJ
 2nd Reviewer:

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) < 20%?	☒	☐	☐	
Was a curve fit used for evaluation?	☐	☒	☐	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	☐	☐	☒	
Were the RT windows properly established?	☒	☐	☐	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	☒	☐	☐	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	☐	☐	☒	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☐	☐	☒	
Was a MS/MSD analyzed every 20 samples of each matrix?	☐	☐	☒	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☐	☒	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☐	☒	☐	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☐	☒	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	

LDC #: TS 337136
 SDG #: per coner

VALIDATION FINDINGS CHECKLIST

Page: 3 of 2
 Reviewer: F7
 2nd Reviewer: [Signature]

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒	☐	☐	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
XII. System performance				
System performance was found to be acceptable.	☒	☐	☐	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒	☐	☐	
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field duplicates.	☐	☐	☒	
XV. Field blanks				
Field blanks were identified in this SDG.	☒	☐	☐	
Target compounds were detected in the field blanks.	☐	☒	☐	

VALIDATION FINDINGS WORKSHEET

Surrogate Recovery

METHOD: GC HPLC

Are surrogates required by the method? Yes or No
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
Were surrogates spiked into all samples and blanks?
Did all surrogate recoveries (%R) meet the QC limits?

#	Sample ID	Detector/Column	Surrogate Compound	%R (Limits)	Qualifications
	1	MS	0	121 (45-120)	1/Pass (S)
	7	↓	↓	142 ()	
	8		0	132 ()	
	10		0	127 ()	↓
	9		↓	50 (53-139)	no qual for DL
	11		0	151 (45-120)	1/Pass (S)
	12		↓	129 ()	no qual 10x DL
	14		↓	155 ()	1/Pass (S)
	15		↓	185 ()	
	16	↓	↓	195 (53-139)	
				151 ()	↓

Surrogate Compound	G	Surrogate Compound	M	Surrogate Compound	S	Surrogate Compound	Y
Chlorobenzene (CBZ)		Octacosane		Benzo(e)Pyrene		1-Chloro-3-Nitrobenzene	
4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	
a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Triphenyltin	
Bromochlorobenzene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	
1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	
1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate	

METHOD: _____ GC _____ HPLC _____

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A". Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCS/D) analyzed for each matrix in this SDG? Were the LCS percent recoveries (%R) and relative percent differences (RPD) within the QC limits?	<u>Y</u> <u>N</u> <u>N/A</u> <u>Y</u> <u>N</u> <u>N/A</u>
--	---

Keyel IV/D Only	Was an LCS analyzed every 20 samples for each matrix or whenever a sample extraction was performed?
Y	N/A
N	N/A

[illegible]

LDC #: 25337J3b

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Page: 1 of 1
Reviewer: FT
2nd Reviewer: CA

METHOD: GC HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Key: I IVID Only

Y/N N/A
Y/N N/A

Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?
Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	% RPD Bet. 2 volumes Finding $\pm$ 40	Associated Samples	Qualifications
	PCB - 1254	77.02	7	J/A det (* x 11)
	PCB - 1260	46.31		↓
	↓			
		77.34	8	
		58.29		
	PCB - 1254	56.93	10	
	PCB - 1260	74.88	11	
	PCB - 1254	48.24	14	
	PCB - 1254	54.02	15	↓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 25337J36
SDG #: JLC w/wh

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FJ
2nd Reviewer: JA

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = $100 \times (S/X)$
A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (200)std	CF (200)std	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD		
1	1CAL	12/18/10	Amoxicillin 1260-1 (ZBR1) ↓ (ZBR2)	83	83	82	82	9.5	9.5		
				186	186	181	181	9.2	9.2		
2	1CAL	12/28/10	↓	70	70	68	68	6.6	6.6		
				170	170	164	164	5.7	5.7		
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC HPLC

$\% \text{ Difference} = 100 * (\text{ave. CF} - \text{CF}) / \text{ave. CF}$
 $\text{CF} = A/C$
 Where: ave. CF = Initial calibration average CF
 CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(1cal)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	QEW 4:06	12/22/10	Aradior 1260 (ZB R1)	200	195.47	2.3	2.3	
			↓ (ZB R2)	↓	214.96	7.5	7.5	
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100
Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	ZBR1	1.04	1.154022	111	111	0
PCP	↓	↓	1.24452	121	120	1

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

METHOD: ☒ GC ☐ HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 \times \frac{(SSC-SC)}{SA}$

RPD = $1 \times \frac{LCS - LCSD}{1 + 2(LCS + LCSD)}$

Where: SSC = Spiked sample concentration

SA = Spike added

LCS = Laboratory control sample percent recovery

SC = Concentration

LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: 10 10 2012

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS		LCSD		Percent Recovery		Percent Recovery		RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)														
Diesel (8015)														
Benzene (8021B)														
Methane (RSK-175)														
2,4-D (8151)														
Dinoseb (8151)														
Naphthalene (8310)														
Anthracene (8310)														
HMX (8330)														
2,4,6-Trinitrotoluene (8330)														
Aroclor 5442	16.67	16.67	9.6	9.2	58	58	55	55	4	4			4	4

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC HPLC

Y/N N/A

Y/N N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) (RF)(Vs or Ws)(%S/100)

Example: Sample ID: #4 Compound Name: Anodol 1254

Concentration = 0.5458

0.832

= 0.66 ug/kg

#	Sample ID	Compound	Reported Concentrations	Recalculated Results Concentrations	Qualifications
	Anodol	1254 - 2	1911.6654 = X	X = 12.66	
			30189	200	
					Anodol 1254 - 2 = 0.422
					3 = 0.710
					4 = 0.316
					5 = 0.436
					6 = 0.845
					Ave = 0.5458

Comments:

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 12, 2011

Matrix: Soil/Sediment/Water

Parameters: Metals

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
EB02-SA5B-121410
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-140-SA5C-SB-3.0-4.0
SED-024-SIV-SD-0.0-0.5
SED-023-SIV-SD-0.0-0.5
SED-022-SIV-SD-0.0-0.5
SL-125-SA5B-SS-0.0-0.5
SL-126-SA5B-SS-0.0-0.5
SL-129-SA5B-SS-0.0-0.5
SL-128-SA5B-SS-0.0-0.5
SED-027-SIV-SD-0.0-0.5
SED-026-SIV-SD-0.0-0.5
SL-060-SA5C-SB-10.0-11.0
SL-002-SA5C-SB-4.0-5.0MS
SL-002-SA5C-SB-4.0-5.0MSD
SL-002-SA5C-SB-4.0-5.0DUP

Introduction

This data review covers 13 soil samples, 5 sediment samples, and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7000 for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Mercury, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, and Zirconium.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No metal contaminants were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Cadmium Copper Lead Phosphorus Potassium Thallium Tin Vanadium	0.077 mg/Kg 0.070 mg/Kg 0.018 mg/Kg 1.509 mg/Kg 31.276 mg/Kg 0.041 mg/Kg 1.407 mg/Kg 0.051 mg/Kg	All soil and sediment samples in SDG DE039
ICB/CCB	Antimony Beryllium	0.31 ug/L 0.13 ug/L	All soil and sediment samples in SDG DE039
ICB/CCB	Potassium Magnesium Titanium	334 ug/L 41.0 ug/L 0.67 ug/L	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Potassium Titanium	353.0 ug/L 0.72 ug/L	SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0
ICB/CCB	Copper	0.24 ug/L	SL-002-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5
ICB/CCB	Copper	0.22 ug/L	SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0
PB (prep blank)	Calcium Magnesium Titanium	96.010 ug/L 42.140 ug/L 0.22 ug/L	All water samples in SDG DE039
ICB/CCB	Aluminum Antimony Beryllium Calcium Magnesium Mercury	87.0 ug/L 0.33 ug/L 0.080 ug/L 114 ug/L 85.7 ug/L 0.021 ug/L	All water samples in SDG DE039

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-002-SA5C-SB-4.0-5.0	Antimony Cadmium Tin	0.16 mg/Kg 0.089 mg/Kg 2.8 mg/Kg	0.16U mg/Kg 0.089U mg/Kg 2.8U mg/Kg
SL-002-SA5C-SB-9.0-10.0	Tin	3.0 mg/Kg	3.0U mg/Kg

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-004-SA5C-SB-9.0-10.0	Tin	2.8 mg/Kg	2.8U mg/Kg
SL-004-SA5C-SB-4.0-5.0	Cadmium Tin	0.24 mg/Kg 2.5 mg/Kg	0.24U mg/Kg 2.5U mg/Kg
SL-140-SA5C-SB-3.0-4.0	Antimony Cadmium Tin	0.17 mg/Kg 0.053 mg/Kg 2.6 mg/Kg	0.17U mg/Kg 0.053U mg/Kg 2.6U mg/Kg
SED-024-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.19 mg/Kg 0.25 mg/Kg 2.7 mg/Kg	0.19U mg/Kg 0.25U mg/Kg 2.7U mg/Kg
SED-023-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.24 mg/Kg 0.22 mg/Kg 2.4 mg/Kg	0.24U mg/Kg 0.22U mg/Kg 2.4U mg/Kg
SED-022-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.25 mg/Kg 0.36 mg/Kg 2.3 mg/Kg	0.25U mg/Kg 0.36U mg/Kg 2.3U mg/Kg
SL-125-SA5B-SS-0.0-0.5	Tin	3.0 mg/Kg	3.0U mg/Kg
SL-126-SA5B-SS-0.0-0.5	Tin	2.9 mg/Kg	2.9U mg/Kg
SL-129-SA5B-SS-0.0-0.5	Tin	2.6 mg/Kg	2.6U mg/Kg
SL-128-SA5B-SS-0.0-0.5	Antimony Cadmium Tin	0.23 mg/Kg 0.31 mg/Kg 3.1 mg/Kg	0.23U mg/Kg 0.31U mg/Kg 3.1U mg/Kg
SED-027-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.16 mg/Kg 0.26 mg/Kg 2.6 mg/Kg	0.16U mg/Kg 0.26U mg/Kg 2.6U mg/Kg
SED-026-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.13 mg/Kg 0.26 mg/Kg 3.0 mg/Kg	0.13U mg/Kg 0.26U mg/Kg 3.0U mg/Kg
SL-060-SA5C-SB-10.0-11.0	Cadmium Tin	0.22 mg/Kg 2.9 mg/Kg	0.22U mg/Kg 2.9U mg/Kg

Sample EB02-SA5B-121410 was identified as an equipment blank. No metal contaminants were found in this blank with the following exceptions:

Equipment Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
EB02-SA5B-121410	12/14/10	Iron Lead Molybdenum	53.3 ug/L 0.075 ug/L 0.32 ug/L	SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-002-SA5C-SB-4.0-5.0MS/MSD (All soil and sediment samples in SDG DE039)	Arsenic	292 (75-125)	228 (75-125)	-	J (all detects)	A
	Beryllium	197 (75-125)	149 (75-125)	-	J (all detects)	
	Cadmium	169 (75-125)	171 (75-125)	-	J (all detects)	
	Chromium	211 (75-125)	194 (75-125)	-	J (all detects)	
	Cobalt	149 (75-125)	143 (75-125)	-	J (all detects)	
	Copper	159 (75-125)	157 (75-125)	-	J (all detects)	
	Lead	257 (75-125)	229 (75-125)	-	J (all detects)	
	Molybdenum	175 (75-125)	165 (75-125)	-	J (all detects)	
	Nickel	172 (75-125)	164 (75-125)	-	J (all detects)	
	Potassium	139 (75-125)	-	-	J (all detects)	
	Silver	173 (75-125)	162 (75-125)	-	J (all detects)	
	Thallium	225 (75-125)	203 (75-125)	-	J (all detects)	
	Vanadium	264 (75-125)	249 (75-125)	-	J (all detects)	
SL-002-SA5C-SB-4.0-5.0MS/MSD (All soil and sediment samples in SDG DE039)	Phosphorus	-	66 (75-125)	-	J (all detects) UJ (all non-detects)	A

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
SL-002-SA5C-SB-4.0-5.0DUP (All soil and sediment samples in SDG DE039)	Arsenic	29 (≤ 20)	-	J (all detects) UJ (all non-detects)	A
	Barium	33 (≤ 20)	-		
	Chromium	28 (≤ 20)	-		
	Copper	27 (≤ 20)	-		
	Lead	28 (≤ 20)	-		
	Nickel	26 (≤ 20)	-		
	Vanadium	27 (≤ 20)	-		
	Zinc	30 (≤ 20)	-		

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Internal Standards

All internal standard percent recoveries (%R) were within QC limits.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution analysis was performed by the laboratory. The analysis criteria were met with the following exceptions:

Diluted Sample	Analyte	%D (Limits)	Associated Samples	Flag	A or P
SL-002-SA5C-SB-4.0-5.0	Barium	13 (≤ 10)	All soil and sediment samples in SDG DE039	J (all detects) UJ (all non-detects)	A
	Lead	17 (≤ 10)			
	Lithium	14 (≤ 10)			
	Potassium	12 (≤ 10)			
	Zinc	16 (≤ 10)			

XII. Sample Result Verification

All sample result verifications were acceptable.

All metals reported below the RL and above the MDL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE039	All analytes reported below the RL and above the MDL.	J (all detects)	A

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Metals - Data Qualification Summary - SDG DE039

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	Arsenic Beryllium Cadmium Chromium Cobalt Copper Lead Molybdenum Nickel Potassium Silver Thallium Vanadium	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	Phosphorus	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	Arsenic Barium Chromium Copper Lead Nickel Vanadium Zinc	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD) (E)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	Barium Lead Lithium Potassium Zinc	J (all detects) UJ (all non-detects)	A	ICP serial dilution (%D) (A)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 EB02-SA5B-121410 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)

Santa Susana Field Laboratory
Metals - Laboratory Blank Data Qualification Summary - SDG DE039

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE039	SL-002-SA5C-SB-4.0-5.0	Antimony Cadmium Tin	0.16U mg/Kg 0.089U mg/Kg 2.8U mg/Kg	A	B
DE039	SL-002-SA5C-SB-9.0-10.0	Tin	3.0U mg/Kg	A	B
DE039	SL-004-SA5C-SB-9.0-10.0	Tin	2.8U mg/Kg	A	B
DE039	SL-004-SA5C-SB-4.0-5.0	Cadmium Tin	0.24U mg/Kg 2.5U mg/Kg	A	B
DE039	SL-140-SA5C-SB-3.0-4.0	Antimony Cadmium Tin	0.17U mg/Kg 0.053U mg/Kg 2.6U mg/Kg	A	B

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE039	SED-024-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.19U mg/Kg 0.25U mg/Kg 2.7U mg/Kg	A	B
DE039	SED-023-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.24U mg/Kg 0.22U mg/Kg 2.4U mg/Kg	A	B
DE039	SED-022-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.25U mg/Kg 0.36U mg/Kg 2.3U mg/Kg	A	B
DE039	SL-125-SA5B-SS-0.0-0.5	Tin	3.0U mg/Kg	A	B
DE039	SL-126-SA5B-SS-0.0-0.5	Tin	2.9U mg/Kg	A	B
DE039	SL-129-SA5B-SS-0.0-0.5	Tin	2.6U mg/Kg	A	B
DE039	SL-128-SA5B-SS-0.0-0.5	Antimony Cadmium Tin	0.23U mg/Kg 0.31U mg/Kg 3.1U mg/Kg	A	B
DE039	SED-027-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.16U mg/Kg 0.26U mg/Kg 2.6U mg/Kg	A	B
DE039	SED-026-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.13U mg/Kg 0.26U mg/Kg 3.0U mg/Kg	A	B
DE039	SL-060-SA5C-SB-10.0-11.0	Cadmium Tin	0.22U mg/Kg 2.9U mg/Kg	A	B

Santa Susana Field Laboratory
Metals - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE039

Level IV

Laboratory: Lancaster Laboratories

Date: 5-2-11

Page: 1 of 1

Reviewer: OL2nd Reviewer: W

METHOD: Metals (EPA SW 846 Method 6010B/6020X/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	ICP/MS Tune	A	
III.	Calibration	A	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	SW	
VI.	Matrix Spike Analysis	SW	MSD
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS/D
IX.	Internal Standard (ICP-MS)	A	
X.	Furnace Atomic Absorption QC	N	Not utilized
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	SW	EB=3

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

sediment^g soil/water

1	SL-002-SA5C-SB-4.0-5.0	Soil	11	SL-126-SA5B-SS-0.0-0.5	S	21		31	PBW
2	SL-002-SA5C-SB-9.0-10.0	↓	12	SL-129-SA5B-SS-0.0-0.5		22		32	PROS
3	EB02-SA5B-121410	W	13	SL-128-SA5B-SS-0.0-0.5		23		33	
4	SL-004-SA5C-SB-9.0-10.0	Soil	14	SED-027-SIV-SD-0.0-0.5		24		34	
5	SL-004-SA5C-SB-4.0-5.0		15	SED-026-SIV-SD-0.0-0.5		25		35	
6	SL-140-SA5C-SB-3.0-4.0		16	SL-060-SA5C-SB-10.0-11.0	✓	26		36	
7	SED-024-SIV-SD-0.0-0.5		17	(X1) MS		27		37	
8	SED-023-SIV-SD-0.0-0.5		18	MSD		28		38	
9	SED-022-SIV-SD-0.0-0.5		19	DUP	✓	29		39	
10	SL-125-SA5B-SS-0.0-0.5	↓	20			30		40	

Notes: _____

Method: Metals (EPA SW 846 Method 6010B/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	/			
Were %RSD of isotopes in the tuning solution $\leq 5\%$?	/			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	/			
Were the proper number of standards used?	/			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	/			
Were all initial calibration correlation coefficients > 0.995 ?	/			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/			
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	/			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	/			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		/		
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ for waters and $\leq 35\%$ for soil samples? A control limit of $\pm RL$ ($\pm 2X RL$ for soil) was used for samples that were $\leq 5X$ the RL, including when only one of the duplicate sample values were $\leq 5X$ the RL.		/		
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	/			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			/	
Do all applicable analyses have duplicate injections? (Level IV only)			/	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			/	
Were analytical spike recoveries within the 85-115% QC limits?			/	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL (ICP/MS)?	/			
Were all percent differences (%Ds) < 10%?		/		
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		/		
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	/			
If the %Rs were outside the criteria, was a reanalysis performed?	/			
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		/		
Were the performance evaluation (PE) samples within the acceptance limits?			/	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		/		
Target analytes were detected in the field duplicates.			/	
XV. Field blanks				
Field blanks were identified in this SDG.	/			
Target analytes were detected in the field blanks.	/			

VALIDATION FINDINGS WORKSHEET

Sample Specific Element Reference

All circled elements are applicable to each sample.

[illegible]

Comments: Mercury by CVAA if performed

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All Soil - LA

Sample Identification																		
Analyte	Maximum PB ^a (mg/kg)	Maximum ICB/CCB ^a (ug/l)	Blank Action Limit	1	2	4	5	6	7	8	9	10	11	12	13	14	15	16
Sb		0.31	0.31	0.16				0.17	0.19	0.24	0.25				0.23	0.16	0.13	
Be		0.13	0.13															
Cd	0.077		0.385	0.089			0.24	0.053	0.25	0.22	0.36				0.31	0.26	0.26	0.22
Cu	0.070		0.35															
Pb	0.018		0.09															
P	1.509		7.545															
K	31.276		156.38															
Tl	0.041		0.205															
Sn	1.407		7.035	2.8	3.0	2.8	2.5	2.6	2.7	2.4	2.3	3.0	2.9	2.6	3.1	2.6	3.0	2.9
V	0.051		0.255															

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 1, 2

Sample Identification									
Analyte	Maximum PB ^a (mg/Kg)	Maximum ICB/CCB ^a (ug/L)	Blank Action Limit	No Qualifiers (>5x)					
K		334	167						
Mg		41.0	20.5						
Ti		0.67	0.335						

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 4-16

Sample Identification									
Analyte	Maximum PB ^a (mg/Kg)	Maximum ICB/CCB ^a (ug/L)	Blank Action Limit	No Qualifiers (>5x)					
K		353.0	176.5						
Ti		0.72	0.36						

Sample Identification				
Analyte	Maximum PB ^a (mg/kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Blank Action Limit
Cu			0.24	0.24
				No Qualifiers (>5x)

Sample Identification				
Analyte	Maximum PB ^a (mg/kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Blank Action Limit
Cu			0.22	0.22
				No Qualifiers (>5x)

Sample Identification				
Analyte	Maximum PB ^a (mg/kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Blank Action Limit
Al			87.0	435
Sb			0.33	1.65
Be			0.080	0.4
Ca	96.010		114	570
Mg	42.140		85.7	428.5
Hg			0.021	0.105
Ti	0.22			1.1
				No Qualifiers (ND)

Note: a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

Blank units: ug/L Associated sample units: 100x

Associated Samples: ~~All Soil~~ / D-13

[illegible]

25337J4eb.wpd

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y	N	N/A	Were ICP interference check samples performed as required?
☒	☐	☐	

Were the AB solution percent recoveries (%R) within the control limits of 80-120%?

LEVEL IV ONLY:

Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

[illegible]

Comments:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered. N/A: Not applicable.
 Was a duplicate sample analyzed for each matrix in this SDG? Y/N N/A
 Were all duplicate sample relative percent differences (RPD) $\leq 20\%$ for water samples and $\leq 35\%$ for soil samples? If no, see qualifications below. A control limit of $\pm$ R.L. (± 2 X R.L. for soil) was used for sample values that were < 5 X the R.L., including the case when only one of the duplicate sample values was < 5 X R.L.. If field blanks were used for laboratory duplicates, note in the Overall Assessment. Y/N N/A

LEVEL IV ONLY:

✓	N	N/A	Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.
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[illegible]

Comments:

SD1LICPMS.wpd

LDC #: 253374

VALIDATION FINDINGS WORKSHEET Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: CS
2nd Reviewer: h

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100 \quad \text{Where, Found} = \text{concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution}$$

$$\text{True} = \text{concentration (in ug/L) of each analyte in the ICV or CCV source}$$

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated		Reported	Acceptable (Y/N)
					%R			
ICV	ICP (Initial calibration)	B	579.06	600	96.5		96.5	Y
ICV	ICP/MS (Initial calibration)	Co	49.34	50	98.7		98.7	Y
ICV	CVAA (Initial calibration)	Hg	2.45	2.5	98.0		98.0	Y
CCV	ICP (Continuing calibration)	Sr	500.69	500	100.1		100.1	Y
CCV	ICP/MS (Continuing calibration)	Ag	25.09	25	100.4		100.4	Y
CCV	CVAA (Continuing calibration)	Hg	1.0	1.0	100.0		100.0	Y
	GFAA (Initial calibration)							
	GFAA (Continuing calibration)							

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 253727

VALIDATION FINDINGS WORKSHEET Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found} - \text{True}}{\text{True}} \times 100$$

Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$

Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$$\%D = \frac{|I-SDR|}{I} \times 100$$

Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated		Acceptable (Y/N)
					%R / RPD / %D	Reported %R / RPD / %D	
18 AS	ICP interference check	Cd	20.4	20	102.0	102.0	Y
18 S	Laboratory control sample	Ni	96.8	104.8	108	108	Y
17	Matrix spike	As	(SSR-SR) 1,226	1,230	100	100	Y
19	Duplicate	Mn	314,5718	278,0081	12	12	Y
1	ICP serial dilution	V	139.8	126.35	10	10	Y

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 2533754**VALIDATION FINDINGS WORKSHEET**
Sample Calculation VerificationPage: 1 of 3
Reviewer: CE
2nd reviewer: W**METHOD:** Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y	N	N/A	Have results been reported and calculated correctly?
Y	N	N/A	Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y	N	N/A	Are all detection limits below the CRDL?

Detected analyte results for Mn were recalculated and verified using the following equation:Concentration = $\frac{(RD)(FV)(Dil)}{(In. Vol.)}$

Recalculation:

RD	=	Raw data concentration
FV	=	Final volume (ml)
In. Vol.	=	Initial volume (ml) or weight (G)
Dil	=	Dilution factor

$$\frac{100 \text{ mL} (2.98019 \text{ mg/L})}{0.938 (1.01 \text{ g})} = 314.57 \text{ mg/kg}$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	Al	12500	12500	Y
		Sb	0.16	0.16	
		As	5.6	5.6	
		Ba	63.6	63.6	
		Be	0.53	0.53	
		B	3.0	3.0	
		Ca	0.089	0.089	
		Co	3200	3200	
		Cr	14.1	14.1	
		Co	5.6	5.6	
		Cu	5.8	5.8	
		Fe	19800	19800	
		Pb	4.7	4.7	
		Li	22.8	22.8	
		Mg	3970	3970	
		Mn	315	315	
		Mo	0.47	0.47	
		Ni	8.5	8.5	
		P	330	330	
		K	2520	2520	

Note: _____

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A

Have results been reported and calculated correctly?

Y N N/A

Are results within the calibrated range of the instruments and within the linear range of the ICP?

Y N N/A

Are all detection limits below the CRDL?

Detected analyte results for Be were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In. Vol.)}$

Recalculation:

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

$$\frac{100\text{mL}(2)(4.1\mu\text{g/L})}{0.953(1.01\text{g})(1000)} = 0.85\text{mg/kg}$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	I (cont)	Se	0.10	0.10	Y
		Ag	0.015	0.015	
		Na	95.4	95.4	
		Sr	12.3	12.3	
		Tl	0.36	0.36	
		Sn	2.8	2.8	
		Ti	1220	1220	
		V	29.5	29.5	
		Zn	59.4	59.4	✓
		Pb			
	II	Al	19800	19800	Y
		Sb	0.29	0.29	
		As	9.7	9.7	
		Ba	115	115	
		Be	0.85	0.85	
		B	2.4	2.4	
		Ca	0.39	0.39	
		Ca	3410	3410	
		Cr	34.5	34.5	
		Co	9.5	9.5	
		Cu	19.2	19.2	
		Fe	28000	28000	
		Pb	16.5	16.5	✓

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for _____ were recalculated and verified using the following equation:

$$\text{Concentration} = \frac{(\text{RD})(\text{FV})(\text{Dil})}{(\text{In. Vol.})}$$

Recalculation:

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

see previous page

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	11 (cont)	Li	27.4	27.4	✓
		Mg	5250	5250	✓
		Mn	364	364	✓
		Hg	0.011	0.011	✓
		Mo	1.1	1.1	✓
		Ni	20.6	20.6	✓
		P	736	736	✓
		K	4480	4480	✓
		Se	0.17	0.17	✓
		Hg	0.34	0.34	✓
		Nb	100	100	✓
		Sc	23.9	23.9	✓
		Tl	0.44	0.44	✓
		Sn	2.9	2.9	✓
		Ti	1490	1490	✓
		V	60.5	60.5	✓
		Zn	140	140	✓
		Zr	4.4	4.4	✓

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 11, 2011

Matrix: Soil/Sediment/Water

Parameters: Herbicides

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

EB02-SA5B-121410
SED-024-SIV-SD-0.0-0.5
SED-023-SIV-SD-0.0-0.5
SED-022-SIV-SD-0.0-0.5
SL-125-SA5B-SS-0.0-0.5
SL-126-SA5B-SS-0.0-0.5
SL-129-SA5B-SS-0.0-0.5
SL-128-SA5B-SS-0.0-0.5
SED-027-SIV-SD-0.0-0.5
SED-026-SIV-SD-0.0-0.5

Introduction

This data review covers 4 soil samples, 5 sediment samples, and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8151A for Herbicides.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 with the following exceptions:

Date	Column	Compound	r^2	Associated Samples	Flag	A or P
12/23/10	RTXCLP1	Dalapon	0.9803	All soil and sediment samples in SDG DE039	J (all detects) UJ (all non-detects)	A

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at the required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
12/19/10	2H18351.13.CCV	RTXCLP1	Dalapon 2,4-DP Dinoseb	26.1 28.9 22.5	All water samples in SDG DE039	J (all detects) UJ (all non-detects)	A
12/29/10	2H18357.60.CCV	RTXCLP1	Dalapon MCPA Dinoseb	22.7 28.3 34.2	SED-024-SIV-SD-0.0-0.5 PBLK25357	J (all detects) UJ (all non-detects)	A
12/29/10	2H18357.60.CCV	RTXCLP1	2,4,5-TP	23.1	PBLK25357	J (all detects) UJ (all non-detects)	A
12/29/10	2H18357.60.CCV	RTXCLP2	Dinoseb	20.3	SED-024-SIV-SD-0.0-0.5 PBLK25357	J (all detects) UJ (all non-detects)	A

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
12/29/10	2H18357.72.CCV	RTXCPL1	Dalapon MCPA Dinoseb	28.8 35.1 33.7	SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	A
12/29/10	2H18357.72.CCV	RTXCPL2	Dinoseb	21.3	SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
12/17/10	ICHBXFX-ICV	RTXCPL2	Dalapon 2,4,5-TP	34.4 20.3	All water samples in SDG DE039	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No herbicide contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
SED-022-SIV-SD-0.0-0.5	Not specified	Dichlorophenyl acetic acid	231 (36-156)	All TCL compounds	J (all detects)	A
SL-125-SA5B-SS-0.0-0.5	Not specified	Dichlorophenyl acetic acid	178 (36-156)	All TCL compounds	J (all detects)	A

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
SL-126-SA5B-SS-0.0-0.5	Not specified	Dichlorophenyl acetic acid	157 (36-156)	All TCL compounds	J (all detects)	A
SL-129-SA5B-SS-0.0-0.5	Not specified	Dichlorophenyl acetic acid	193 (36-156)	All TCL compounds	J (all detects)	A
SL-128-SA5B-SS-0.0-0.5	Not specified	Dichlorophenyl acetic acid	162 (36-156)	All TCL compounds	J (all detects)	A
SED-026-SIV-SD-0.0-0.5	Not specified	Dichlorophenyl acetic acid	377 (36-156)	All TCL compounds	J (all detects)	A

VI. Matrix Spike/(Matrix Spike) Duplicate

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCSsoil	2,4-D	144 (40-140)	All soil and sediment samples in SDG DE039	J (all detects)	P
LCSsoil	Dinoseb	8 (10-36)	All soil and sediment samples in SDG DE039	J (all detects) R (all non-detects)	P

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
SED-022-SIV-SD-0.0-0.5	2,4,5-T	44.79	J (all detects) J (all detects)	A
SL-128-SA5B-SS-0.0-0.5	Dicamba	126.30	J (all detects)	A
SED-026-SIV-SD-0.0-0.5	Dicamba	104.24	J (all detects) J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Herbicides - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Dalapon	J (all detects) UJ (all non-detects)	A	Initial calibration (r^2)(C)
DE039	EB02-SA5B-121410	Dalapon 2,4-DP Dinoseb	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE039	SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Dalapon MCPA Dinoseb	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE039	EB02-SA5B-121410	Dalapon 2,4,5-TP	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE039	SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-026-SIV-SD-0.0-0.5	All TCL compounds	J (all detects)	A	Surrogate spikes (%R) (S)
DE039	SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	2,4-D	J (all detects)	P	Laboratory control samples (%R) (L)
DE039	SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Dinoseb	J (all detects) R (all non-detects)	P	Laboratory control samples (%R) (L)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SED-022-SIV-SD-0.0-0.5	2,4,5-T	J (all detects) J (all detects)	A	Compound quantitation and CRQLs (RPD) (*IX)
DE039	SL-128-SA5B-SS-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Dicamba	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*IX)
DE039	EB02-SA5B-121410 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Herbicides - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Herbicides - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J5
 SDG #: DE039
 Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET Level IV

Date: 5/10/11
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC Herbicides (EPA SW 846 Method 8151A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>12/14/10</u>
II.	Initial calibration	SW	% PSD ≤ 20 , r^2
III.	Calibration verification/ICV	SW	% CCV/10' ≤ 20
IV.	Blanks	A	
V.	Surrogate recovery	SW	
VI.	Matrix spike/Matrix spike duplicates	N	client specific
VII.	Laboratory control samples	SW	was ID
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	SW	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	NP	EB = 1

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: soil sediments water

1	EB02-SA5B-121410	11	BLANKA	21		31	
2	SED-024-SIV-SD-0.0-0.5	12	PBLK 36350	22		32	
3	SED-023-SIV-SD-0.0-0.5	13	PBLK 25357	23		33	
4	SED-022-SIV-SD-0.0-0.5	14		24		34	
5	SL-125-SA5B-SS-0.0-0.5	15		25		35	
6	SL-126-SA5B-SS-0.0-0.5	16		26		36	
7	SL-129-SA5B-SS-0.0-0.5	17		27		37	
8	SL-128-SA5B-SS-0.0-0.5	18		28		38	
9	SED-027-SIV-SD-0.0-0.5	19		29		39	
10	SED-026-SIV-SD-0.0-0.5	20		30		40	

Notes: _____

LDC #: XS 337J5
 SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: FJ
 2nd Reviewer: [Signature]

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) < 20%?	☒	☐	☐	
Was a curve fit used for evaluation?	☒	☐	☐	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	☒	☒	☐	
Were the RT windows properly established?	☒	☐	☐	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) ≤ 20% or percent recoveries 80-120%?	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	☐	☒	☐	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	☒	☐	☐	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☐	☐	☒	
Was a MS/MSD analyzed every 20 samples of each matrix?	☐	☐	☒	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☐	☒	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☐	☒	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	

LDC #: 25 33755
 SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: F7
 2nd Reviewer: 1

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒	☐	☐	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
XII. System performance				
System performance was found to be acceptable.	☒	☐	☐	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒	☐	☐	
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field duplicates.	☐	☐	☒	
XV. Field blanks				
Field blanks were identified in this SDG.	☒	☐	☐	
Target compounds were detected in the field blanks.	☐	☒	☐	

VALIDATION FINDINGS WORKSHEET

METHOD: GC HPLC

8310	8330	8151	8141	8141 (Con't)	8021B
A. Acenaphthene	A. HMX	A. 2,4-D	A. Dichlorvos	V. Fensulfothion	V. Benzene
B. Acenaphthylene	B. RDX	B. 2,4-DB	B. Mevinphos	W. Bolstar	CC. Toluene
C. Anthracene	C. 1,2,5-Trinitrobenzene	C. 2,4,5-T	C. Demeton-O	X. EPN	EE. Ethyl Benzene
D. Benzo(a)anthracene	D. 1,3-Dinitrobenzene	D. 2,4,5-TP	D. Demeton-S	Y. Azinphos-methyl	SSS. O-Xylene
E. Benzo(e)pyrene	E. Toxyl	E. Dinoseb	E. Ethoprop	Z. Coumaphos	RRR. MP-Xylene
F. Benzo(b)fluoranthene	F. Nitrobenzene	F. Dichlorprop	F. Naled	AA. Parathion	GG. Total Xylene
G. Benzo(g,h,i)perylene	G. 2,4,6-Trinitrotoluene	G. Dicamba	Q. Sulfotep	BB. Trichloronate	
H. Benzo(k)fluoranthene	H. 4-Amino-2,6-dinitrotoluene	H. Dalapon	H. Phorate	CC. Trichlorinate	
I. Chrysene	I. 2-Amino-4,6-dinitrotoluene	I. MCPp	I. Dimethoate	DD. Trifluralin	
J. Dibenz(a,h)anthracene	J. 2,4-Dinitrotoluene	J. MCPA	J. Diazinon	EE. Def	
K. Fluoranthene	K. 2,6-Dinitrotoluene	K. Pentachlorophenol	K. Disulfoton	FF. Prowl	
L. Fluorene	L. 2-Nitrotoluene	L. 2,4,6-TP (silvex)	L. Parathion-methyl	GG. Ethion	
M. Indeno(1,2,3-cd)pyrene	M. 3-Nitrotoluene	M. Silvex	M. Ronnel	HH. Tetrachlorvinphos	
N. Naphthalene	N. 4-Nitrotoluene		N. Malathion	II. Sulprofos	
O. Phenanthrene	O.		O. Chlorpyrifos		
P. Pyrene	P.		P. Fenthion		
Q.	Q		Q. Parathion-ethyl		
R.			R. Trichloronate		
S.			S. Merphos		
			T. Stirofos		
			U. Tokuthion		

Notes:

Page: 1 of 1
Reviewer: EF
2nd Reviewer: [Signature]

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a 5 point calibration curve performed?	X	N	N/A
Was a linear fit used for evaluation? If yes, the acceptance criteria for each compound is %RSD less than or equal to 20.0%.	X	N	N/A
Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation? _____	X	N	N/A
Did the initial calibration meet the acceptance criteria?	Y	N	N/A
Was initial calibration performed at the required frequency?	Y	N	N/A

Were the retention time windows properly established for all compounds?	Y	N	N/A
Were compounds run at the required concentrations in the initial calibrations?	Y	X	N/A

[illegible]

INICALNew.wpd

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

What type of continuing calibration calculation was performed? 23 %D or RPD

Y N/A Were continuing calibration standards analyzed at the required frequencies?

Y N/A Did the continuing calibration standards meet the %D / RPD validation criteria of 15.0%?

Level IV Only

Y N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D / RPD (Limit ≤ 15.0)	RT (limit)	Associated Samples	Qualifications
	12/17/10	1C-H-B-X-F-X-10V	RTX-CP2	H	34.4	()	all water	J/W/A (C)
				D	20.3	()	↓	↓
						()		
						()		
	12/19/10	2H18351.13-00V	RTX-CP1	H	26.1	()	↓	(C)
				2,4-DP	28.9	()	↓	↓
				E	22.5	()		
						()		
						()		
	12/29/10	2H18357.60-00V	RTX-CP1	H	22.7	()	PBLK 25357, 2	J/W/A (C)
				J	28.3	()	↓	↓
				D	23.1	()	PBLK 25357	↓
				E	34.2	()	PBLK 25357, 2	↓
						()		
	12/29/10	↓	RTX-CP2	E	20.3	()	PBLK 25357, 2	J/W/A (C)
						()		
						()		
	12/29/10	2H18357.72-00V	RTX-CP1	H	28.8	()	3 → 10	J/W/A (C)
				J	35.1	()		
				E	33.7	()	↓	↓
	12/29/10	↓	RTX-CP2	E	21.3	()	↓	↓
						()		
						()		
						()		

VALIDATION FINDINGS WORKSHEET

Surrogate Recovery

METHOD: GC HPLC

Are surrogates required by the method? Yes or No

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

~~Y/N~~ N/A Were surrogates spiked into all samples and blanks?

Y/N N/A

[illegible]

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m-ylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene		
C	a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Triphenyltin		
D	Bromochlorobenzene	J	n-Triacontane	P	1-methylnachthalene	V	Tri-n-propyltin		
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate		
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

METHOD: ☒ GC ☐ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

X	N	N/A	Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCSD) analyzed for each matrix in this SDG?
Y	N	N/A	Were the LCS percent recoveries (%R) and relative percent differences (RPD) within the QC limits?

Level IV/D Only

Was an LCS analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

Y N N/A

[illegible]



Level IV/D Only

Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

Y	M	N/A
---	--------------	-----

$$\sqrt{A_{\text{eff}}} \left(\frac{x}{*} \right)$$
[illegible]

LDC #: 25337J5
 SDG #: per vouch

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 2
 Reviewer: FP
 2nd Reviewer: SA

METHOD: GC ✓ HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
 average CF = sum of the CF/number of standards
 %RSD = $100 \cdot (S/X)$
 A = Area of compound,
 C = Concentration of compound,
 S = Standard deviation of the CF
 X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				(CF)	(std)	(CF)	(std)	Average CF (Initial)	%RSD	Average CF (Initial)	%RSD
1	ICAL #8456A 1H15357	12/23/10	Dicamba RTXCLP ↓ 2,4,5-TP ↓	20.020/9.8		4.94 x 10 ⁻¹	4.94 x 10 ⁻¹	4.89 x 10 ⁻¹	6.3	4.89 x 10 ⁻¹	6.3
						7.43 x 10 ⁻¹	7.43 x 10 ⁻¹	7.03 x 10 ⁻¹	3.8	7.03 x 10 ⁻¹	3.8
2			↓ RTXCLP2 ↓	5.55 x 10 ⁻¹		5.55 x 10 ⁻¹	5.55 x 10 ⁻¹	5.43 x 10 ⁻¹	9.9	5.43 x 10 ⁻¹	9.9
				7.54 x 10 ⁻¹		7.54 x 10 ⁻¹	7.54 x 10 ⁻¹	7.17 x 10 ⁻¹	4.9	7.17 x 10 ⁻¹	4.9
3	ICAL HP5231A 1H18357	12/23/10	↓	5.76 x 10 ⁻¹		5.76 x 10 ⁻¹	5.76 x 10 ⁻¹	5.91 x 10 ⁻¹	17.5	5.91 x 10 ⁻¹	17.5
				7.55 x 10 ⁻¹		7.55 x 10 ⁻¹	7.55 x 10 ⁻¹	7.29 x 10 ⁻¹	14.7	7.29 x 10 ⁻¹	14.7
4			↓	4.87 x 10 ⁻¹		4.87 x 10 ⁻¹	4.87 x 10 ⁻¹	4.81 x 10 ⁻¹	3.8	4.81 x 10 ⁻¹	3.8
				7.21 x 10 ⁻¹		7.21 x 10 ⁻¹	7.21 x 10 ⁻¹	6.83 x 10 ⁻¹	3.4	6.83 x 10 ⁻¹	3.4

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337JS
SDG #: per count

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 2 of 2
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = $100 \cdot (S/X)$
A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF	(std)	CF	(std)	Average CF (Initial)	%RSD	Average CF (Initial)	%RSD
1	1CAL	12/17/10	Dicamba RTXcup1 2,4,5-TP	70.020	19.8	5.42	10 ⁻¹	5.55	10 ⁻¹	5.55	10 ⁻¹
	HP231A					6.93	10 ⁻¹	6.91	10 ⁻¹	6.91	10 ⁻¹
	1418351										
2			RTXcup2	4.81	10 ⁻¹	4.81	10 ⁻¹	4.86	10 ⁻¹	4.86	10 ⁻¹
				7.04	10 ⁻¹	7.04	10 ⁻¹	6.80	10 ⁻¹	6.80	10 ⁻¹
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \times (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = Initial calibration average CF
CF = A/C CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	2H18351.13	12/19/10	Dicamba RTxcvp1	40.04	38.37	4.2	38.37	4.2
			24.5-TP	39.60	36.79	7.1	36.79	7.1
			↓ RTxcvp2	↓	38.98	2.6	38.98	2.6
2			↓	↓	40.46	2.2	40.46	2.2
	2H18357.60	12/29/10	RTxcvp1	↓	40.40	0.9	40.40	0.9
			↓	↓	30.46	23.1	30.46	23.1
3			RTxcvp2	↓	39.25	2.0	39.25	2.0
			↓	↓	36.61	7.5	36.61	7.5
	2H18357.72	12/29/10	RTxcvp1	↓	39.07	2.4	39.07	2.4
4			↓	↓	32.00	19.2	32.00	19.2
			RTxcvp2	↓	38.89	2.9	38.89	2.9
			↓	↓	36.80	7.1	36.80	7.1

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 233/33

SDG #: see cover

METHOD: GC HPLC

VALIDATION FINDINGS WORKSHEET

Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: [signature]

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
#2	Rtxcol 1	6.60	8.52x 10x	128	128	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 \cdot (\text{SSC} - \text{SC}) / \text{SA}$$
$$\text{RPD} = | \text{LCS} - \text{LCSD} | \cdot 2 / (\text{LCS} + \text{LCSD})$$

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS 8015

Compound	Spike Added		Spiked Sample Concentration		LCS		LCSD		Percent Recovery		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)												
Diesel (8015)												
Benzene (8021B)												
Methane (RSK-175)												
2,4-D (8151)	8.33	NA	12	NA	144							
Dinoseb (8151)	14.2	V	1.2	V	8	144			NA			
Naphthalene (8310)												
Anthracene (8310)												
HMX (8330)												
2,4,6-Trinitrotoluene (8330)												

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC HPLC

Y	N	N/A
Y	N	N/A

Sample ID: #2
Compound Name: Dicamba

$$\text{Concentration} = \frac{(0.48)(100)(2000)}{(77751)(4.81 \times 10^{-1})(60)(0.872)(1000)}$$

1.037 ρ_n / ρ_g

[illegible]

Comments:

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory
Collection Date: December 14, 2010
LDC Report Date: June 23, 2011
Matrix: Soil/Sediment/Water
Parameters: Wet Chemistry
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
EB02-SA5B-121410
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-140-SA5C-SB-3.0-4.0
SED-024-SIV-SD-0.0-0.5
SED-023-SIV-SD-0.0-0.5
SED-022-SIV-SD-0.0-0.5
SL-125-SA5B-SS-0.0-0.5
SL-126-SA5B-SS-0.0-0.5
SL-129-SA5B-SS-0.0-0.5
SL-128-SA5B-SS-0.0-0.5
SED-027-SIV-SD-0.0-0.5
SED-026-SIV-SD-0.0-0.5
SL-060-SA5C-SB-10.0-11.0
SL-002-SA5C-SB-4.0-5.0MS
SL-002-SA5C-SB-4.0-5.0DUP
SL-129-SA5B-SS-0.0-0.5MS
SL-129-SA5B-SS-0.0-0.5DUP

Introduction

This data review covers 14 soil samples, 5 sediment samples, and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 9012B for Cyanide, EPA Method 300.0 for Fluoride and Nitrate as Nitrogen, EPA SW 846 Method 7199 for Hexavalent Chromium, EPA SW 846 Method 9045C for pH, and EPA Method 314.0 for Perchlorate.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

Sample EB02-SA5B-121410 was identified as an equipment blank. No contaminant concentrations were found in this blank.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	%R (Limits)	Flag	A or P
SL-129-SA5B-SS-0.0-0.5MS (SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0)	Fluoride	65 (80-120)	J (all detects) UJ (all non-detects)	A

VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Sample Result Verification

All sample result verifications were acceptable

All analytes reported below the RL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE039	All analytes reported below the RL and above the MDL.	J (all detects)	A

IX. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

X. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Wet Chemistry - Data Qualification Summary - SDG DE039

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE029	SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	Fluoride	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE029	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 EB02-SA5B-121410 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)

Santa Susana Field Laboratory
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Wet Chemistry - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J6
SDG #: DE039
Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET

Level IV

Date: 5/21/11
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: (Analyte) Cyanide (EPA SW846 Method 9012B), Nitrate-N, Fluoride (EPA Method 300.0), Hexavalent Chromium (EPA SW846 Method 7199), Oxidation-Reduction Potential (ASTM D1490), pH (EPA SW846 Method 9045C)
Perchlorate (EPA 314.0)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
Ila.	Initial calibration	A	
Ilb.	Calibration verification	A	
III.	Blanks	A	
IV	Matrix Spike/Matrix Spike Duplicates	ASW MS	
V	Duplicates	A	DUP
VI.	Laboratory control samples	A	LS/D
VII.	Sample result verification	A	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X	Field blanks	NO	EB=3

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinseate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: all soil except 3=water

1	SL-002-SA5C-SB-4.0-5.0	11	SL-126-SA5B-SS-0.0-0.5	21		31	PBLW
2	SL-002-SA5C-SB-9.0-10.0	12	SL-129-SA5B-SS-0.0-0.5	22		32	PBS
3	EB02-SA5B-121410	13	SL-128-SA5B-SS-0.0-0.5	23		33	
4	SL-004-SA5C-SB-9.0-10.0	14	SED-027-SIV-SD-0.0-0.5	24		34	
5	SL-004-SA5C-SB-4.0-5.0	15	SED-026-SIV-SD-0.0-0.5	25		35	
6	SL-140-SA5C-SB-3.0-4.0	16	SL-060-SA5C-SB-10.0-11.0	26		36	
7	SED-024-SIV-SD-0.0-0.5	17	(#1) MS	27		37	
8	SED-023-SIV-SD-0.0-0.5	18	↓ DUP	28		38	
9	SED-022-SIV-SD-0.0-0.5	19	(#12) MS	29		39	
10	SL-125-SA5B-SS-0.0-0.5	20	↓ DUP	30		40	

Notes:

Method: Inorganics (EPA Method See cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. Calibration				
Were all instruments calibrated daily, each set-up time?	☒	☐	☐	
Were the proper number of standards used?	☒	☐	☐	
Were all initial calibration correlation coefficients > 0.995?	☒	☐	☐	
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	☒	☐	☐	
Were titrant checks performed as required? (Level IV only)	☐	☐	☒	
Were balance checks performed as required? (Level IV only)	☐	☐	☒	
III. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	☒	☐	☐	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	☒	☐	☐	
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL (≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were < 5X the CRDL.	☒	☐	☐	
V. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	☒	☐	☐	
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☒	☒	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	

LDC #: 2S33TJ6

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: cr
2nd Reviewer: W

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
Were detection limits < RL?	☒	☐	☐	
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒	☐	☐	
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.	☐	☒	☐	
Target analytes were detected in the field duplicates.	☐	☐	☒	
X. Field blanks				
Field blanks were identified in this SDG.	☒	☐	☐	
Target analytes were detected in the field blanks.	☐	☒	☐	

LDC #:

Sample Specific Analysis Reference

Page: 1 of 1

Reviewer: AK

2nd reviewer: W

All circled methods are applicable to each sample.

[illegible]

Comments:

VALIDATION FINDINGS WORKSHEET

LDC #: 2533756
SDG #: -

METHOD: inorganics, EPA Method 8200

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Question	Answer
Was a matrix spike analyzed for each matrix in this SDG?	N/A

Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken. (80-12-3)

Were all duplicate sample relative differences (RPD) $\leq 20\%$ for water samples and $\leq 35\%$ for soil samples?

LEVEL IV ONLY:

Q1N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

[illegible]

Comments:

LDC #: 253356

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd Reviewer: CR

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of ClO₄ was recalculated. Calibration date: 12/6/10

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found} \times 100}{\text{True}}$$

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (mg/l)	Response	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial calibration	<u>ClO₄</u>	s1	2	0.003	1.000	0.999	Y
		s2	4.00	0.01			
		s3	10.00	0.024			
		s4	25.00	0.063			
		s5	100.00	0.263			
Calibration verification	F	<u>CCV</u>	1.5	1.5115	101	101	Y
Calibration verification	<u>NO₃</u>	↓	↓	1.4846	99	99	Y
Calibration verification	CN	↓	0.15	0.16090	107	107	Y

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 2533278VALIDATION FINDINGS WORKSHEET
Level IV Recalculation WorksheetPage: 1 of 1
Reviewer: QR
2nd Reviewer: hMETHOD: Inorganics, Method SEE COVER

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where,

Found =

concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation,
Found = SSR (spiked sample result) - SR (sample result).

True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$

Where,

S =

Original sample concentration

D =

Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated		Acceptable (Y/N)
					%R / RPD	%R / RPD	
16	Laboratory control sample	F	1.5	1.5	0	0	Y
17	Matrix spike sample	ClO ₄	522 (SSR-SR)	495	105	105	Y
18	Duplicate sample	NO ₃	1.7	1.7	0	0	Y

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #:

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: 1 of 1

Reviewer:

2nd reviewer: _____

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y: N N/A

Have results been reported and calculated correctly?

Y	N	N/A
---	---	-----

Are results within the calibrated range of the instruments?

Y	N	N/A
---	---	-----

Are all detection limits below the CRQL?

Compound (analyte) results for F/CG⁶⁺ reported with a positive detect were
recalculated and verified using the following equation:

Concentration =

$$F: y = 0.2073x + 0.0021$$

Recalculation: $\alpha = F = \frac{0.05 - 0.0021}{0.2073} \times 50 \text{ mL} = 2.7 \text{ mg/kg}$
 $\frac{5.08 \text{ g (0.833)}}$

Gr⁺: $y = 0.02749x - 0.00619$

$$1: G^+ = \frac{((0.107341)78439158 - 0.4858)1000L}{1000(259)(0.938)} = 0.338 \text{ mol/kg}$$
[illegible]

Note: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory
Collection Date: December 14, 2010
LDC Report Date: May 10, 2011
Matrix: Soil/Water
Parameters: Total Petroleum Hydrocarbons as Gasoline
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
TB-121410
EB02-SA5B-121410
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-060-SA5C-SB-10.0-11.0

Introduction

This data review covers 5 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Total Petroleum Hydrocarbons (TPH) as Gasoline.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as gasoline contaminants were found in the method blanks.

Sample TB-121410 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

Sample EB02-SA5B-121410 was identified as an equipment blank. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 TB-121410 EB02-SA5B-121410 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J7 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: DE039 Level IV
 Laboratory: Lancaster Laboratories

Date: 5/10/11
 Page: 1 of 1
 Reviewer: *AF*
 2nd Reviewer: *AF*

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	Initial calibration	A	% RSD ≤ 20
III.	Calibration verification/ICV	A	ICV / CCV ≤ 20
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specified
VII.	Laboratory control samples	A	ics 10
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	A	
XIII.	Field blanks	ND	TB = 3 EB = 4

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

soil + water

1	2	SL-002-SA5C-SB-4.0-5.0	11	1	BLKN	21		31	
2	2	SL-002-SA5C-SB-9.0-10.0	12		BLNKA	22		32	
3	1	TB-121410	13	2	BLNFB	23		33	
4	1	EB02-SA5B-121410	14			24		34	
5	2	SL-004-SA5C-SB-9.0-10.0	15			25		35	
6	2	SL-004-SA5C-SB-4.0-5.0	16			26		36	
7	2	SL-060-SA5C-SB-10.0-11.0	17			27		37	
8			18			28		38	
9			19			29		39	
10			20			30		40	

Notes: _____

LDC #: 2533757
SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FN
2nd Reviewer: CA

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) < 20%?	☒	☐	☐	
Was a curve fit used for evaluation?	☐	☒	☐	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	☐	☐	☒	
Were the RT windows properly established?	☒	☐	☐	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) < 20%.0 or percent recoveries 80-120%?	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	☒	☐	☐	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	☐	☐	☒	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☐	☐	☒	
Was a MS/MSD analyzed every 20 samples of each matrix?	☐	☐	☒	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☐	☒	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☐	☒	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	

LDC #: 2533757
 SDG #: per coned

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: F7
 2nd Reviewer: EA

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			☒	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒			
XII. System performance				
System performance was found to be acceptable.	☒			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		☒		
Target compounds were detected in the field duplicates.			☒	
XV. Field blanks				
Field blanks were identified in this SDG.	☒			
Target compounds were detected in the field blanks.		☒		

LDC #: 2533757
SDG #: JPLC 10/10/10

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FJ
2nd Reviewer: JB

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = $100 \cdot (S/X)$
A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (220Std)	CF (220Std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD	Average CF (Initial)	%RSD
1	1CAL	11/29/10	GRU	35488	35488	37329	37329	12.7	12.7	37329	12.7
2	1CAL	8/10/10	GRU	30949	30949	30328	30328	9.0	9.0	30328	9.0
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Validation Findings Worksheet **Continuing Calibration Results Verification**

Page: 1 of 7
Reviewer: FE
2nd Reviewer: AB

HPLC

% Difference = $100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$
 CF = A/C

Where: ave. CF = Initial calibration average CF
 CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

[illegible]

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET

Surrogate Results Verification

LDC #: 25337J /
 SDG #: see cover
 METHOD: GC HPLC

Page: 1 of 1
 Reviewer: FT
 2nd reviewer: [Signature]

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$ Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TFE	NS	735	669.23	91	91	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 28337J7

SDG #: JLC coner

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1

Reviewer: JLC

2nd Reviewer: JLC

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 \times (\text{SSC}-\text{SC})/\text{SA}$ RPD = $100 \times (\text{LCS} - \text{LCS}2) / ((\text{LCS} + \text{LCS}2) / 2)$

Where: SSC = Spiked sample concentration

SA = Spike added

SC = Concentration

LCS = Laboratory control sample percent recovery

LCS2 = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: JLC

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS		LCS2		Percent Recovery		LCS2		Percent Recovery		LCS/LCSD RPD	
	LCS	LCS2	LCS	LCS2	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)	11	11	8.7	8.6	79	79	78	78			1	1				
Diesel (8015)																
Benzene (8021B)																
Methane (RSK-175)																
2,4-D (8151)																
Dinoseb (8151)																
Naphthalene (8310)																
Anthracene (8310)																
HMX (8330)																
2,4,6-Trinitrotoluene (8330)																

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC HPLC

~~$$\frac{Y}{N} \bigg/ \frac{N/A}{N/A}$$~~

Example: _____

Sample ID: _____

Compound Name: _____

A= Area or height of the compound to be measured
 Fv= Final Volume of extract
 Df= Dilution Factor
 RF= Average response factor of the compound
 in the initial calibration
 Vs= Initial volume of the sample
 Ws= Initial weight of the sample
 %S= Percent Solid

Concentration = _____

[illegible]

Comments:

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory
Collection Date: December 14, 2010
LDC Report Date: May 11, 2011
Matrix: Soil
Parameters: Total Petroleum Hydrocarbons as Extractables
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-060-SA5C-SB-10.0-11.0

Introduction

This data review covers 5 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary -
SDG DE039**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

**Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data
Qualification Summary - SDG DE039**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Field Blank Data Qualification
Summary - SDG DE039**

No Sample Data Qualified in this SDG

LDC #: 25337J8 **VALIDATION COMPLETENESS WORKSHEET**
SDG #: DE039 Level IV
Laboratory: Lancaster Laboratories

Date: 5/10/11
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	Initial calibration	A	% PSD ≤ 20
III.	Calibration verification/ICV	A	ICV / CCY ≤ 20
IV.	Blanks	Δ	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specified
VII.	Laboratory control samples	A	LCV
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	Δ	
XI.	Overall assessment of data	Δ	
XII.	Field duplicates	N	
XIII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
N = Not provided/applicable R = Rinseate TB = Trip blank
SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	SL-002-SA5C-SB-4.0-5.0	11	PBLK06357	21		31	
2	SL-002-SA5C-SB-9.0-10.0	12		22		32	
3	SL-004-SA5C-SB-9.0-10.0	13		23		33	
4	SL-004-SA5C-SB-4.0-5.0	14		24		34	
5	SL-060-SA5C-SB-10.0-11.0	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 2533758
SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FL
2nd Reviewer: A

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) < 20%?	☒	☐	☐	
Was a curve fit used for evaluation?	☐	☒	☒	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	☐	☐	☒	
Were the RT windows properly established?	☒	☐	☐	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) ≤ 20% or percent recoveries 80-120%?	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☒	☐	☐	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	☒	☐	☐	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	☐	☐	☒	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☐	☐	☒	
Was a MS/MSD analyzed every 20 samples of each matrix?	☐	☐	☒	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☐	☒	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☐	☒	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	

LDC #: 2533715
 SDG #: per count

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: F7
 2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒	☐	☐	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
XII. System performance				
System performance was found to be acceptable.	☒	☐	☐	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒	☐	☐	
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field duplicates.	☐	☐	☒	
XV. Field blanks				
Field blanks were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field blanks.	☐	☐	☒	

Page: 1 of 1
 Reviewer: FF
 2nd Reviewer: [Signature]

METHOD: GC / HPLC

CF = A/C
 average CF = sum of the CF/number of standards
 $\%RSD = 100 \cdot (S/X)$
 A = Area of compound,
 C = Concentration of compound,
 S = Standard deviation of the CF
 X = Mean of the CFs

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET

Page: 1 of 7
Reviewer: FE
2nd Reviewer: CA

METHOD: GC HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

Where: $\% \text{ Difference} = 100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$
 $\text{CF} = A/C$
 ave. CF = Initial calibration average CF
 CF = continuing calibration CF
 A = Area of compound
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(Ical)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	J358.36	12/27/10	EFH 28-040	575.96	685.71	19.1	19.1	
	J358.47	12/27/10	↓	287.98	293.33	1.9	1.9	
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 23 05/11/18

SDG #: see cover

METHOD: ☒ GC ☐ HPLC

VALIDATION FINDINGS WORKSHEET

Surrogate Results Verification

Page: 1 of 1

Reviewer: FT

2nd reviewer:

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$

Where: SF = Surrogate Found

SS = Surrogate Spiked

Sample ID: # 1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
chlorobenzene	23	1.0	0.789141	79	79	0
or thortopheny	↓	1.0	0.88195	88	88	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

METHOD: ☒ GC ☐ HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 \times (SSC-SC)/SA$
RPD = $100 \times (LCS - LCSD) / ((LCS + LCSD) / 2)$

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: 167

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS		LCSD		Percent Recovery		LCS		Percent Recovery		LCS		Percent Recovery		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)																				
Diesel (8015)																				
Benzene (8021B)																				
Methane (RSK-175)																				
2,4-D (8151)																				
Dinoseb (8151)																				
Naphthalene (8310)																				
Anthracene (8310)																				
HMX (8330)																				
2,4,6-Trinitrotoluene (8330)																				
EFH (C8-C11)	0.84	NA	0.63	NA					TS	TS	NA	NA								

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J8

SDG #: 14 money

METHOD: ☒ GC ☐ HPLC

N/A	N/A
N	N
Y	Y

Were all reported results recalculated and verified for all level IV samples?
Were all recalculated results for detected target compounds within 10% of the reported results?

$$\text{Concentration} = \frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$$

Example:

Sample ID.	#	Compound Name
		TFH 030-040

A= Area or height of the compound to be measured
FV= Final Volume of extract
Df= Dilution Factor

RF= Average response factor of the compound

In the initial calibration

V_s = Initial volume of the sample

Ws= initial weight of the sample

%S= Percent Solid

$$\text{Concentration} = \frac{591570 (1000)}{14229 (60) (0.938 (1000))}$$

0.74 μm λ

[illegible]

Comments:

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 10, 2011

Matrix: Soil

Parameters: Explosives

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0

SL-002-SA5C-SB-9.0-10.0

SL-004-SA5C-SB-9.0-10.0

SL-004-SA5C-SB-4.0-5.0

SL-060-SA5C-SB-10.0-11.0

Introduction

This data review covers 5 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8330A for Explosives.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed for the primary (quantitation) column and confirmation column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at the required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Column	Compound	%D	Associated Samples	Flag	A or P
12/14/10	Capcell CN	Tetryl	21.8	All samples in SDG DE039	J (all detects) UJ (all non-detects)	A

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No explosive contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

**Santa Susana Field Laboratory
Explosives - Data Qualification Summary - SDG DE039**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	Tetryl	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

**Santa Susana Field Laboratory
Explosives - Laboratory Blank Data Qualification Summary - SDG DE039**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory
Explosives - Field Blank Data Qualification Summary - SDG DE039**

No Sample Data Qualified in this SDG

LDC #: 25337J40

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE039

Level IV

Laboratory: Lancaster Laboratories

Date: 5/10/11

Page: 1 of 1

Reviewer: F2

2nd Reviewer:

METHOD: HPLC Explosives (EPA SW 846 Method 8330A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 12/14/10
II.	Initial calibration	Δ	% RSD ≤ 20 ✓
III.	Calibration verification/ICV	SW	% RSD ICV / CCV ≤ 20
IV.	Blanks	Δ	
V.	Surrogate recovery	Δ	
VI.	Matrix spike/Matrix spike duplicates	N	client specified
VII.	Laboratory control samples	Δ	see ID
VIII.	Target compound identification	Δ	
IX.	Compound Quantitation and CRQLs	Δ	
X.	System Performance	Δ	
XI.	Overall assessment of data	Δ	
XII.	Field duplicates	N	
XIII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

soil

1	SL-002-SA5C-SB-4.0-5.0	11	PBLK19355	21		31	
2	SL-002-SA5C-SB-9.0-10.0	12		22		32	
3	SL-004-SA5C-SB-9.0-10.0	13		23		33	
4	SL-004-SA5C-SB-4.0-5.0	14		24		34	
5	SL-060-SA5C-SB-10.0-11.0	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 25337J40
 SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: F
 2nd Reviewer: A

Method: GC ☒ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) < 20%?	☒	☐	☐	
Was a curve fit used for evaluation?	☒	☐	☐	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	☒	☐	☐	
Were the RT windows properly established?	☒	☐	☐	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	☒	☐	☐	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	☐	☐	☒	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☐	☐	☒	
Was a MS/MSD analyzed every 20 samples of each matrix?	☐	☐	☒	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☐	☒	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☐	☒	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	

LDC #: XS33714U
 SDG #: per carrier

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: F7
 2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			/	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		/		
Target compounds were detected in the field duplicates.			/	
XV. Field blanks				
Field blanks were identified in this SDG.		/		
Target compounds were detected in the field blanks.			/	

VALIDATION FINDINGS WORKSHEET

METHOD: GC HPLC

8310	8330	8151	8141	8141(Cont)	8021B
A. Acenaphthene	A. HMX	A. 2,4-D	A. Dichlorvos	V. Fensulfothion	V. Benzene
B. Acenaphthylene	B. RDX	B. 2,4-DB	B. Mevinphos	W. Bolstar	CC. Toluene
C. Anthracene	C. 1,3,5-Trinitrobenzene	C. 2,4,5-T	C. Demeton-O	X. EPN	EE. Ethyl Benzene
D. Benzo(a)anthracene	D. 1,3-Dinitrobenzene	D. 2,4,5-TP	D. Demeton-S	Y. Azinphos-methyl	SSS. O-Xylene
E. Benzo(a)pyrene	E. Tetra	E. Dinoseb	E. Ethoprop	Z. Coumaphos	RRR. MP-Xylene
F. Benzo(b)fluoranthene	F. Nitrobenzene	F. Dichlorprop	F. Naled	AA. Parathion	GG. Total Xylene
G. Benzo(g,h,i)perylene	G. 2,4,6-Trinitrotoluene	G. Dicamba	G. Sulfotep	BB. Trichloronate	
H. Benzo(k)fluoranthene	H. 4-Amino-2,6-dinitrotoluene	H. Dalapon	H. Phorate	CC. Trichlorinate	
I. Chrysene	I. 2-Amino-4,6-dinitrotoluene	I. MCPP	I. Dimethoate	DD. Trifluralin	
J. Dibenzo(a,h)anthracene	J. 2,4-Dinitrotoluene	J. MCPA	J. Diazinon	EE. Def	
K. Fluoranthene	K. 2,6-Dinitrotoluene	K. Pentachlorophenol	K. Disulfoton	FF. Prowl	
L. Fluorene	L. 2-Nitrotoluene	L. 2,4,5-TP (allvex)	L. Parathion-methyl	GG. Ethion	
M. Indeno(1,2,3-cd)pyrene	M. 3-Nitrotoluene	M. Silvex	M. Ronnel	HH. Tetrachlorvinphos	
N. Naphthalene	N. 4-Nitrotoluene		N. Malathion	II. Sulprofos	
O. Phenanthrene	O.		O. Chlorpyrifos		
P. Pyrene	P.		P. Fenitron		
Q.	Q		Q. Parathion-ethyl		
R.			R. Trichloronate		
S.			S. Merphos		
			T. Stirofos		
			U. Tokuthion		

Notes:

LDC #: 25337J40
SDG #: per count

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = $100 \cdot (S/X)$
A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF	std	CF	std	Average CF (Initial)	%RSD	Average CF (Initial)	%RSD
1	1CAL	12/13/10	1,3-DNB (chrompack) Nitrobenzene	2.71×10^2		2.71×10^2		2.77×10^2	4.0	2.77×10^2	4.0
				1.99×10^2		1.99×10^2		1.95×10^2	3.4	1.95×10^2	3.4
2			(Capall. cN)	2.86×10^2		2.86×10^2		2.85×10^2	1.7	2.85×10^2	1.7
				1.67×10^2		1.67×10^2		1.73×10^2	11.5	1.73×10^2	11.5
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25 337040
SDG #: 25 337040

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 2
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \times (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = Initial calibration average CF
CF = Continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	CCV 20:08	12/23/10	1,3-DNB (chrompack) nitrobenzene	507.00 499.50	494.55 483.91	2.5 3.1	494.55 483.91	2.5 3.1
2	CCV 4:36	12/24/10	(chrompack)	1014.00 999.0	983.91 975.99	3.0 2.3	983.91 975.99	3.0 2.3
3	CCV 20:08	12/23/10	(capcell CN)	507 499.50	510.03 496.84	0.6 0.5	510.03 496.84	0.6 0.5
4	CCV 4:36	12/24/10	(capcell CN)	1014.00 999.0	1029.51 946.98	1.5 5.2	1029.51 946.98	1.5 5.2

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$ Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
2-Nitro-m-xylene	chrompack	2500	2698.448	108	108	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 \times \frac{(SSC-SC)/SA}{RPD}$
Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery

SC = Concentration
LCS = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS

Compound	Spike Added		Spiked Sample Concentration		LCS		LCSD		Percent Recovery		Percent Recovery		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)														
Diesel (8015)														
Benzene (8021B)														
Methane (RSK-175)														
2,4-D (8151)														
Dinoseb (8151)														
Naphthalene (8310)														
Anthracene (8310)														
HMX (8330)	2500.3	NA	2100	NA	83									
2,4,6-Trinitrotoluene (8330)	2499	↓	2700	↓	109									

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Were all reported results recalculated and verified for all level IV samples?
Were all recalculated results for detected target compounds within 10% of the reported results?

Sample ID. _____

Compound Name _____

Concentration =

A= Area or height of the compound to be measured
 Fv= Final Volume of extract
 Df= Dilution Factor
 RF= Average response factor of the compound
 In the initial calibration
 Vs= Initial volume of the sample
 Ws= Initial weight of the sample
 %S= Percent Solid

[illegible]

Comments:

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 11, 2011

Matrix: Soil

Parameters: Terphenyls

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0

SL-002-SA5C-SB-9.0-10.0

SL-004-SA5C-SB-9.0-10.0

SL-004-SA5C-SB-4.0-5.0

SL-060-SA5C-SB-10.0-11.0

Introduction

This data review covers 5 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Terphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No terphenyl contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

The QAPP reporting limits (RL) were met with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG DE039	o-Terphenyl m-Terphenyl p-Terphenyl	Laboratory reporting limit reported at 3.5 mg/Kg.	Reporting limit should be reported at 0.167 mg/Kg per the QAPP.	None None None	P

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Terphenyls - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	o-Terphenyl m-Terphenyl p-Terphenyl	None None None	P	Compound quantitation and CRQLs (*IX)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Terphenyls - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Terphenyls - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

METHOD: GC Terphenyls (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 12/14/10
II.	Initial calibration	Δ	% PSD ≤ 20
III.	Calibration verification/ICV	A	ICV/CCV ≤ 20
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specified
VII.	Laboratory control samples	A	see ID
VIII.	Target compound identification	Δ	
IX.	Compound Quantitation and CRQLs	SW	
X.	System Performance	Δ	
XI.	Overall assessment of data	Δ	
XII.	Field duplicates	N	
XIII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

cell

1	SL-002-SA5C-SB-4.0-5.0	11	PBLK 27355	21		31	
2	SL-002-SA5C-SB-9.0-10.0	12		22		32	
3	SL-004-SA5C-SB-9.0-10.0	13		23		33	
4	SL-004-SA5C-SB-4.0-5.0	14		24		34	
5	SL-060-SA5C-SB-10.0-11.0	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 25337J41
 SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: / of 2
 Reviewer: FR
 2nd Reviewer: 1

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) < 20%?	☒	☐	☐	
Was a curve fit used for evaluation?	☐	☒	☐	
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	☐	☐	☒	
Were the RT windows properly established?	☒	☐	☐	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) $\leq 20\%$ or percent recoveries 80-120%?	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	☒	☐	☐	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	☐	☐	☒	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☐	☐	☒	
Was a MS/MSD analyzed every 20 samples of each matrix?	☐	☐	☒	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☐	☒	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☐	☒	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	

LDC #: 25337541
 SDG #: per control

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: F2
 2nd Reviewer: CA

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒	☐	☐	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
XII. System performance				
System performance was found to be acceptable.	☒	☐	☐	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒	☐	☐	
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field duplicates.	☐	☐	☒	
XV. Field blanks				
Field blanks were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field blanks.	☐	☐	☒	

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y	N	N/A	Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?

Did the reported results for detected target compounds agree within 10.0% of the recalculated results?	
Y	N/A

[illegible]

Comments: See sample calculation verification worksheet for recalculations

LDC #: 25337141
SDG #: J. L. Smith

VALIDATION FINDINGS WORKSHEET

Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FJ
2nd Reviewer: CH

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = $100 \cdot (S/X)$
A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported (CF std)	Recalculated (CF std)	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
1	1CAL	12/22/10	0-Terphenyl	16.147 (16.147 CF std)	16.147 (16.147 CF std)	2.52×10^4	2.52×10^4	1.3	1.3
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \times (\text{ave. CF} - \text{CF}) / \text{ave. CF}$

CF = A/C

Where: ave. CF = initial calibration average CF

CF = continuing calibration CF

A = Area of compound

C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	R356.31	12/23/10	o-terphenyl	32.28	33.98	5.3	33.98	5.3
	R356.42	12/24/10	↓	32.28	33.55	3.9	33.55	3.9
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100
Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
n-Triacontane-d62	NS	0.333	0.322907	97	Recalculated	97

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
					Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
					Recalculated	

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 \cdot (\text{SSC} - \text{SC}) / \text{SA}$$

$$\text{RPD} = 100 \cdot |\text{LCS} - \text{LCSD}| / \frac{1}{2}(\text{LCS} + \text{LCSD})$$

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery

SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS LCSD

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS		LCSD		Percent Recovery		LCS		Percent Recovery		LCS		Percent Recovery		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)																				
Diesel (8015)																				
Benzene (8021B)																				
Methane (RSK-175)																				
2,4-D (8151)																				
Dinoseb (8151)																				
Naphthalene (8310)																				
Anthracene (8310)																				
HMX (8330)																				
2,4,6-Trinitrotoluene (8330)																				
m-Perphenyl	1.68		1.7	1.7	100	100	102	102												

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC HPLC

~~Y/N~~

Sample ID: _____ Compound Name: _____

Concentration = _____

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound
In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

22

[illegible]

Comments: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 11, 2011

Matrix: Soil

Parameters: Alcohols

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0

SL-002-SA5C-SB-9.0-10.0

SL-004-SA5C-SB-9.0-10.0

SL-004-SA5C-SB-4.0-5.0

SL-060-SA5C-SB-10.0-11.0

Introduction

This data review covers 5 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Alcohols.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No alcohol contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Alcohols - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Alcohols - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Alcohols - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J43 **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE039

Level IV

Laboratory: Lancaster Laboratories

Date: 5/11/11

Page: 1 of 1

Reviewer: F1

2nd Reviewer: A

METHOD: GC Alcohols (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	Initial calibration	A	% RSD ≤ 20
III.	Calibration verification/ICV	A	
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specified
VII.	Laboratory control samples	A	US
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinstate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-002-SA5C-SB-4.0-5.0	11	PBLK02354	21	31
2	SL-002-SA5C-SB-9.0-10.0	12		22	32
3	SL-004-SA5C-SB-9.0-10.0	13		23	33
4	SL-004-SA5C-SB-4.0-5.0	14		24	34
5	SL-060-SA5C-SB-10.0-11.0	15		25	35
6		16		26	36
7		17		27	37
8		18		28	38
9		19		29	39
10		20		30	40

Notes:

LDC #: 25 337J43
 SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: FL
 2nd Reviewer: CA

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) < 20%?	☒	☐	☐	
Was a curve fit used for evaluation?	☐	☒	☐	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	☐	☐	☒	
Were the RT windows properly established?	☒	☐	☐	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	☒	☐	☐	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	☐	☐	☒	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☐	☐	☒	
Was a MS/MSD analyzed every 20 samples of each matrix?	☐	☐	☒	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☐	☒	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☐	☒	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	

LDC #: 25337J43
 SDG #: per comment

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: F7
 2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒	☐	☐	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
XII. System performance				
System performance was found to be acceptable.	☒	☐	☐	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒	☐	☐	
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field duplicates.	☐	☐	☒	
XV. Field blanks				
Field blanks were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field blanks.	☐	☐	☒	

LDC #: 25 337J43
SDG #: JLV

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FJ
2nd Reviewer: JLV

METHOD: GC HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = $100 \cdot (S/X)$
A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (SD)	CF (SD)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD	Average CF (Initial)	%RSD
1	14A	12/20/10	methanol	3.34	3.34	3.17	3.17	6.7	6.7	3.17	6.7
2											
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

Page: 1 of 2
Reviewer: FA
2nd Reviewer: CA

LDC #: 25332J43
SDG #: pu can

METHOD: GC HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \times (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = initial calibration average CF
CF = A/C CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	CCV 21:09	12/20/10	Methano	10,000	9791.62	2.1	9791.62	2.1
	CCV 23:52	12/20/10	Methano	10000	945098	5.5	945098	5.5
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 21351073
SDG #: see cover

METHOD: GC HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: C

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #111111

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Azulone	N3	2500	2350.707	94	94	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

METHOD: ☒ GC ☐ HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 \times (SSC-SC)/SA$

RPD = $1 LCS - LCSD \times 2 / (LCS + LCSD)$

Where: SSC = Spiked sample concentration

SA = Spike added

LCS = Laboratory control sample percent recovery

SC = Concentration

LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: 105

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS		LCSD		Percent Recovery		Percent Recovery		Percent Recovery		RPD	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)																
Diesel (8015)																
Benzene (8021B)																
Methane (RSK-175)																
2,4-D (8151)																
Dinoseb (8151)																
Naphthalene (8310)																
Anthracene (8310)																
HIMX (8330)																
2,4,6-Trinitrotoluene (8330)																
Methanol	2500	NA	1900	NA					78	78			NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC HPLC

Y	N	N/A
X	N	N/A

Sample ID:	#1
Compound Name	Methanol

$$\text{Concentration} = \frac{745 \text{ (500)}}{3.17 \text{ (10)} (0.938) \text{ (1000)}}$$
$$= 125.3 \text{ ng/kg}$$
[illegible]

Comments: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 13, 2011

Matrix: Soil

Parameters: Glycols

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-060-SA5C-SB-10.0-11.0
SL-002-SA5C-SB-4.0-5.0MS
SL-002-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 7 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Glycols.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No glycol contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-002-SA5C-SB-4.0-5.0MS/MSD (SL-002-SA5C-SB-4.0-5.0)	Diethylene glycol	-	-	36 (≤20)	J (all detects)	A

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCS	Propylene glycol	72 (75-125)	All samples in SDG DE039	J (all detects) UJ (all non-detects)	P

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Glycols - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0	Diethylene glycol	J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD) (Q)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	Propylene glycol	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Glycols - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Glycols - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J45 VALIDATION COMPLETENESS WORKSHEET

SDG #: DE039

Level IV

Laboratory: Lancaster Laboratories

Date: 5/10/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC Glycols (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	Initial calibration	A	% RSD ≤ 20 , 1 st
III.	Calibration verification/ICV	A	100% LCV ≤ 20
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	SW	
VII.	Laboratory control samples	SW	LCV
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

5012

1	SL-002-SA5C-SB-4.0-5.0	11	PBLK10351	21		31	
2	SL-002-SA5C-SB-9.0-10.0	12		22		32	
3	SL-004-SA5C-SB-9.0-10.0	13		23		33	
4	SL-004-SA5C-SB-4.0-5.0	14		24		34	
5	SL-060-SA5C-SB-10.0-11.0	15		25		35	
6	#1 MS	16		26		36	
7	#1 MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 25337J45
SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FJ
2nd Reviewer: 1

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) < 20%?	☒	☐	☐	
Was a curve fit used for evaluation?	☒	☐	☐	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	☒	☐	☐	
Were the RT windows properly established?	☒	☐	☐	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	☒	☐	☐	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	☐	☐	☒	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☒	☐	☐	
Was a MS/MSD analyzed every 20 samples of each matrix?	☒	☐	☐	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☒	☐	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☐	☒	☐	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☐	☒	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	

LDC #: 75 337.445
 SDG #: per count

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: FJ
 2nd Reviewer: CA

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			/	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		/		
Target compounds were detected in the field duplicates.			/	
XV. Field blanks				
Field blanks were identified in this SDG.		/		
Target compounds were detected in the field blanks.			/	

METHOD: GC HPLC

Question	Y	N	N/A
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".	☒	☐	☐
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?	☒	☐	☐
Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?	☒	☐	☐
Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?	☐	☐	☐

[illegible]

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a LCS required?
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

LCSLCSD.1S

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

LDC #: 25337-45
 SDG #: per vouch

Page: 1 of 1
 Reviewer: FF
 2nd Reviewer: [Signature]

METHOD: GC ✓ HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
 average CF = sum of the CF/number of standards
 %RSD = $100 \times (S/X)$
 A = Area of compound,
 C = Concentration of compound,
 S = Standard deviation of the CF
 X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (std)	Recalculated CF (std)	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
1	1CAL	12/16/10	Ethylene glycol	100.847 (std)	100.847 (std)	2.49 x 10 ³	2.49 x 10 ³	7.6	7.6
2	1CAL	12/21/10	Ethylene glycol						
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CONCLC.1S

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

LDC #: 20-001210
 SDG #: see cover
 METHOD: GC HPLC

Page: 1 of 1
 Reviewer: FT
 2nd reviewer: [Signature]

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$ Where: SF = Surrogate Found
 SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
<u>#</u>						
<u>Tetramethylene glycol</u>	<u>SS</u>	<u>197</u>	<u>138.1246</u>	<u>70</u>	<u>70</u>	<u>0</u>

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 \times ((SSC - SC)/SA)$ Where SSC = Spiked sample concentration SA = Spike added

RPD = $((SSCMS - SSCMSD) \times 2) / (SSCMS + SSCMSD) \times 100$ MS = Matrix spike

MS/MSD samples: 6 + 7

Compound	Spike Added (mg/kg)		Sample Conc. (mg/kg)	Spike Sample Concentration (mg/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
Ethylene glycol	199.44	199.44	ND	170	180	85	85	88	88	3	3

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 \times (\text{SSC} - \text{SC}) / \text{SA}$$
$$\text{RPD} = | \text{LCS} - \text{LCSD} | \times 2 / (\text{LCS} + \text{LCSD})$$

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery

SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: L

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS		LCSD		Percent Recovery		Percent Recovery		RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)														
Diesel (8015)														
Benzene (8021B)														
Methane (RSK-175)														
2,4-D (8151)														
Dinoseb (8151)														
Naphthalene (8310)														
Anthracene (8310)														
HMX (8330)														
2,4,6-Trinitrotoluene (8330)														
Ethylene Glycol	199.44	NA	160	NA	79	79	NA	NA						

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC HPLC

Y	N	N/A
Y	N	N/A

Sample ID: _____
Compound Name: _____

A= Area or height of the compound to be measured
 Fv= Final Volume of extract
 Df= Dilution Factor
 RF= Average response factor of the compound
 in the initial calibration
 Vs= Initial volume of the sample
 Ws= Initial weight of the sample
 %S= Percent Solid.

Comments: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 11, 2011

Matrix: Soil

Parameters: Formaldehyde

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0

SL-002-SA5C-SB-9.0-10.0

SL-004-SA5C-SB-9.0-10.0

SL-004-SA5C-SB-4.0-5.0

SL-060-SA5C-SB-10.0-11.0

Introduction

This data review covers 5 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8315A for Formaldehyde.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No formaldehyde was found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Formaldehyde - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Formaldehyde - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Formaldehyde - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J71 **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE039

Level IV

Laboratory: Lancaster Laboratories

Date: 5/10/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: HPLC Formaldehyde (EPA SW 846 Method 8315A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 12/14/10
II.	Initial calibration	Δ	% PSD ≤ 20
III.	Calibration verification/ICV	A	ICV/CCV ≤ 20
IV.	Blanks	Δ	
V.	Surrogate recovery	Δ	
VI.	Matrix spike/Matrix spike duplicates	N	client specified
VII.	Laboratory control samples	A	LCs
VIII.	Target compound identification	Δ	
IX.	Compound Quantitation and CRQLs	Δ	
X.	System Performance	Δ	
XI.	Overall assessment of data	Δ	
XII.	Field duplicates	N	
XIII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-002-SA5C-SB-4.0-5.0	11	POLK 2135	21		31	
2	SL-002-SA5C-SB-9.0-10.0	12		22		32	
3	SL-004-SA5C-SB-9.0-10.0	13		23		33	
4	SL-004-SA5C-SB-4.0-5.0	14		24		34	
5	SL-060-SA5C-SB-10.0-11.0	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 25337571
 SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
 Reviewer: FJ
 2nd Reviewer: [Signature]

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) < 20%?	☒	☐	☐	
Was a curve fit used for evaluation?	☐	☒	☐	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	☐	☐	☒	
Were the RT windows properly established?	☒	☐	☐	
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	☒	☐	☐	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	☐	☐	☒	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☐	☐	☒	
Was a MS/MSD analyzed every 20 samples of each matrix?	☐	☐	☒	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☐	☒	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☐	☒	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	

LDC #: 25337571
 SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: F7
 2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒	☐	☐	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
XII. System performance				
System performance was found to be acceptable.	☒	☐	☐	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒	☐	☐	
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field duplicates.	☐	☐	☒	
XV. Field blanks				
Field blanks were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field blanks.	☐	☐	☒	

VALIDATION FINDINGS WORKSHEET

Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: F7
2nd Reviewer: Q

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = $100 \cdot (S/X)$

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

[illegible]

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC

HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF

CF = A/C

Where: ave. CF = Initial calibration average CF

CF = continuing calibration CF

A = Area of compound

C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	1F4356.20R	12/22/10	Formaldehyde	10010.00	8858.19	11.5	8858.19	11.5
	1F4356.31R	12/23/10			8774.58	12.3	8774.58	12.3
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$
Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
Butyraldehyde	NS	1986	2932.687 2	100 99	99	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 \times (\text{SSC} - \text{SC}) / \text{SA}$$
$$\text{RPD} = | \text{LCS} - \text{LCSD} | \times 2 / (\text{LCS} + \text{LCSD})$$

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS		LCSD		Percent Recovery		LCS		Percent Recovery		LCS		Percent Recovery		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)																				
Diesel (8015)																				
Benzene (8021B)																				
Methane (RSK-175)																				
2,4-D (8151)																				
Dinoseb (8151)																				
Naphthalene (8310)																				
Anthracene (8310)																				
HMX (8330)																				
2,4,6-Trinitrotoluene (8330)																				
for maldehyde	5010	NA	5000	NA					100	100	NA	NA			NA	NA				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: ☒ GC ☐ HPLC

Y	Z	N/A
Y	Z	N/A

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
Rt= Average response factor of the compound
in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

$$= \frac{252}{60} \text{ km/h}$$
[illegible]

Comments:

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 13, 2011

Matrix: Sediment

Parameters: Perchlorate

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SED-024SIV-SD-0.0-0.5

SED-024SIV-SD-0.0-0.5MS

SED-024SIV-SD-0.0-0.5MSD

Introduction

This data review covers 3 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6850 for Perchlorate.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance check is not required by the method.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990 .

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 15.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 15.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The percent differences (%D) of the limit of detection verification (LODV) calibration standard were less than or equal to 50.0% for perchlorate.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No perchlorate was found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogate spikes were not required by the method.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Perchlorate - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SED-024SIV-SD-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Perchlorate - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Perchlorate - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J87 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: DE039 Level IV
 Laboratory: Lancaster Laboratories

Date: 5/11/11
 Page: 1 of 1
 Reviewer: F7
 2nd Reviewer: 

METHOD: LC/MS Perchlorate (EPA SW846 Method 6850)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 12/14/10
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration	Δ	r^2
IV.	Continuing calibration/ICV	Δ	$1CV / CV \leq 15/50 \quad LODV \leq 50$
V.	Blanks	Δ	
VI.	Surrogate spikes	N	
VII.	Matrix spike/Matrix spike duplicates	Δ	
VIII.	Laboratory control samples	Δ	LC
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	Δ	
XI.	Target compound identification	Δ	
XII.	Compound quantitation/CRQLs	Δ	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	Δ	
XV.	Overall assessment of data	Δ	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

Sediment

1	SED-024-SIV-SD-0.0-0.5	11	PBLK203SD	21		31	
2	#1MS	12		22		32	
3	#1MSD	13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

6850

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
Were the DFTPP performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			/	
Was a curve fit used for evaluation?	/			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	/			
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ?			/	
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			/	
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ? 15 + 50	/			
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
Were all surrogate %R within QC limits?			/	
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			/	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			/	
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
Was an LCS analyzed for this SDG?	/			

LDC #: 25337187

VALIDATION FINDINGS CHECKLIST

Page: 3 of 2

Reviewer: FT

2nd Reviewer: a

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
Were performance evaluation (PE) samples performed?			/	
Were the performance evaluation (PE) samples within the acceptance limits?			/	
Were internal standard area counts within -50% or +100% of the associated calibration standard?	/			
Were retention times within + 30 seconds from the associated calibration standard?	/			
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?			/	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?			/	
Were chromatogram peaks verified and accounted for?	/			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?			/	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			/	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?			/	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			/	
System performance was found to be acceptable.	/			
Overall assessment of data was found to be acceptable.	/			
Field duplicate pairs were identified in this SDG.		/		
Target compounds were detected in the field duplicates.			/	
Field blanks were identified in this SDG.		/		
Target compounds were detected in the field blanks.			/	

LDC # 25337J87
SDG# per coner

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: PF
2nd Reviewer: 1

METHOD: Method 6850

Parameter: perchlorate

Date	Column	Compound	y	x
12/10/2010	LCMS	perchlorate	0.0252	0.020
			0.0533	0.040
			0.1221	0.100
			0.2514	0.200
			0.4626	0.400
			1.1661	1.000
			2.8475	2.500

Regression Output:		Regression Output:	Reported
Constant		0.01217	1.2200E-003
Std Err of Y Est		0.01119	
R Squared		0.99990	0.99999
No. of Observations		7.00000	
Degrees of Freedom		5.00000	
X Coefficient(s)	1.137E+000		0.11370
Std Err of Coef.	0.005072	0.04	

LDC #: 25337087

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: CA

6852

METHOD: GC/MS-BWA (EPA-SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (A_x)(C_{is}) / (A_{is})(C_x)$$

Where:

ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

 A_x = Area of compound, A_{is} = Area of associated internal standard C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported		Recalculated	
					RRF (CC)	%D	RRF (CC)	%D
1	ms5p35510010	12/22/10	Phenol (1st internal standard) Perchloroethane	4	3.92	2		2
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
2	ms5p35610011	12/22/10	Phenol (1st internal standard) Perchloroethane	0.4	0.337	16	0.337	16
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

6852

METHOD: GC/MS-BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 \times (SSC - SC) / SA$ Where: SSC = Spiked sample concentration SC = Sample concentration SA = Spike added

RPD = $100 \times MSC - MSC1 \times 2 / (MSC + MSDC)$ MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD samples: 2 + 3

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)		Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	MS	MSD	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Phenol												
N-Nitroso-di-n-propylamine												
4-Chloro-3-methylphenol												
Acenaphthene												
Pentachlorophenol												
Pyrene												
Perchlorate	100	100	ND		110	110	100	100	100	100	0	0

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

6850

METHOD: GC/MS-BVA (EPA-SW 846-Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 \cdot (\text{SC/SA})$$

Where: SSC = Spike concentration
SA = Spike added

$$\text{RPD} = \frac{|\text{LCSC} - \text{LCSDC}|}{1/2(\text{LCSC} + \text{LCSDC})}$$

LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: 100

Compound	Spike Added (ug/kg)		Spike Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol										
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol										
Acenaphthene										
Pentachlorophenol										
Pyrene										
Perchlorate	100	NA	99	NA	99	99	NA	NA		

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

SAMPLE DELIVERY GROUP

DE040

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	3050B	6010B	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	3050B	6020	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	3060A	7199	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	3550B	8081A	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	3550B	8082	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	3550B	8151A	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	3550B	8270C	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	3550B	8270C SIM	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	Gen Prep	314.0	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	Gen Prep	9045M	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	METHOD	300.0	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	METHOD	7471A	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	3050B	6010B	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	3060A	7199	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	3550B	8081A	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	3550B	8082	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	3550B	8151A	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	3550B	8270C	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	3550B	8270C SIM	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	Gen Prep	314.0	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	Gen Prep	9045M	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	METHOD	300.0	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	METHOD	7471A	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	3050B	6010B	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	3060A	7199	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	3550B	8081A	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	3550B	8082	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	3550B	8151A	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	3550B	8270C	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	3550B	8270C SIM	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	Gen Prep	314.0	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	Gen Prep	9045M	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	METHOD	300.0	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	METHOD	7471A	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5DUP	P166075D221248A	DUP	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5DUP	P166075D221248B	DUP	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5DUP	P166075D221248C	DUP	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5DUP	P166075D221248D	DUP	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MSD	P166075M221254A	MSD	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MSD	P166075M221254B	MSD	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MSD	P166075M221254C	MSD	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MSD	P166075M221254D	MSD	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MSD	P166075M240247A	MSD	3550B	8081A	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MS	P166075R221251A	MS	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MS	P166075R221251B	MS	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MS	P166075R221251C	MS	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MS	P166075R221251D	MS	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MS	P166075R240233A	MS	3550B	8081A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	3050B	6010B	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	3060A	7199	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	3550B	8081A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	3550B	8082	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	3550B	8151A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	3550B	8270C	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	3550B	8270C SIM	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	Gen Prep	314.0	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	Gen Prep	9045M	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	METHOD	300.0	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	METHOD	7471A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5DUP	P166074D220551	DUP	METHOD	7471A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5DUP	P166074D221246	DUP	3050B	6010B	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5DUP	P166074D221340	DUP	3050B	6010B	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5DUP	P166074D270225A	DUP	Gen Prep	314.0	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5DUP	P166074D272253A	DUP	METHOD	300.0	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5DUP	P166074D291330A	DUP	Gen Prep	9045M	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MSD	P166074M220554	MSD	METHOD	7471A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MSD	P166074M221254	MSD	3050B	6010B	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MSD	P166074M221347	MSD	3050B	6010B	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MSD	P166074M241230A	MSD	3550B	8151A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MSD	P166074M241550A	MSD	3550B	8082	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MSD	P166074M260917	MSD	3550B	8270C SIM	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MSD	P166074M261819	MSD	3550B	8270C	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R220552	MS	METHOD	7471A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R221250	MS	3050B	6010B	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R221344	MS	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R241203A	MS	3550B	8151A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R241531A	MS	3550B	8082	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R260844	MS	3550B	8270C SIM	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R261744	MS	3550B	8270C	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R270249A	MS	Gen Prep	314.0	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R272308A	MS	METHOD	300.0	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	3050B	6010B	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	3050B	6020	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	3060A	7199	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	3550B	8081A	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	3550B	8082	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	3550B	8151A	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	3550B	8270C	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	3550B	8270C SIM	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	Gen Prep	314.0	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	Gen Prep	9045M	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	METHOD	300.0	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	METHOD	6850	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	METHOD	7471A	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	3050B	6010B	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	3050B	6020	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	3060A	7199	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	3550B	8081A	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	3550B	8082	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	3550B	8151A	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	3550B	8270C	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	3550B	8270C SIM	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	Gen Prep	314.0	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	Gen Prep	9045M	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	METHOD	300.0	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	METHOD	7471A	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	3050B	6010B	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	3050B	6020	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	3060A	7199	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	3550B	8081A	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	3550B	8082	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	3550B	8151A	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	3550B	8270C	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	3550B	8270C SIM	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	Gen Prep	314.0	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	Gen Prep	9045M	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	METHOD	300.0	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	METHOD	7471A	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	3050B	6010B	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	3050B	6020	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	3060A	7199	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	3550B	8081A	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	3550B	8082	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	3550B	8151A	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	3550B	8270C	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	3550B	8270C SIM	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	Gen Prep	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	Gen Prep	9045M	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	METHOD	300.0	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	METHOD	7471A	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	3050B	6010B	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	3050B	6020	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	3060A	7199	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	3550B	8081A	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	3550B	8082	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	3550B	8151A	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	3550B	8270C	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	3550B	8270C SIM	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	Gen Prep	314.0	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	Gen Prep	9045M	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	METHOD	300.0	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	METHOD	7471A	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	3050B	6010B	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	3050B	6020	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	3060A	7199	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	3550B	8081A	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	3550B	8082	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	3550B	8151A	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	3550B	8270C	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	3550B	8270C SIM	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	Gen Prep	314.0	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	Gen Prep	9045M	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	METHOD	7471A	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	3050B	6010B	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	3050B	6020	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	3060A	7199	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	3550B	8081A	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	3550B	8082	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	3550B	8151A	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	3550B	8270C	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	3550B	8270C SIM	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	Gen Prep	314.0	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	Gen Prep	9045M	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	METHOD	300.0	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	METHOD	7471A	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	3050B	6010B	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	3050B	6020	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	3060A	7199	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	3550B	8081A	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	3550B	8082	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	3550B	8151A	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	3550B	8270C	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	3550B	8270C SIM	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	Gen Prep	314.0	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	Gen Prep	9045M	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	METHOD	300.0	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	METHOD	7471A	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	3050B	6010B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	3050B	6020	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	3060A	7199	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	3550B	8081A	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	3550B	8082	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	3550B	8151A	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	3550B	8270C	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	3550B	8270C SIM	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	Gen Prep	314.0	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	Gen Prep	9045M	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	METHOD	300.0	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	METHOD	7471A	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	3050B	6010B	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	3050B	6020	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	3060A	7199	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	3550B	8081A	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	3550B	8082	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	3550B	8151A	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	3550B	8270C	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	3550B	8270C SIM	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	Gen Prep	314.0	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	Gen Prep	9045M	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	METHOD	300.0	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	METHOD	7471A	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	3050B	6010B	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	3050B	6020	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	3060A	7199	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	3550B	8081A	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	3550B	8082	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	3550B	8151A	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	3550B	8270C	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	3550B	8270C SIM	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	Gen Prep	314.0	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	Gen Prep	9045M	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	METHOD	300.0	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	METHOD	6850	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	METHOD	7471A	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	3050B	6010B	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	3050B	6020	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	3060A	7199	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	3550B	8081A	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	3550B	8082	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	3550B	8151A	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	3550B	8270C	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	3550B	8270C SIM	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	Gen Prep	314.0	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	Gen Prep	9045M	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	METHOD	300.0	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	METHOD	7471A	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	3050B	6010B	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	3050B	6020	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	3060A	7199	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	3550B	8081A	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	3550B	8082	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	3550B	8151A	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	3550B	8270C	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	3550B	8270C SIM	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	Gen Prep	314.0	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	Gen Prep	9045M	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	METHOD	300.0	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	METHOD	7471A	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5DUP	P166085D270212B	DUP	METHOD	300.0	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5DUP	P166085D270737B	DUP	Gen Prep	314.0	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5MS	P166085R270226B	MS	METHOD	300.0	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5MS	P166085R270801B	MS	Gen Prep	314.0	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	3050B	6010B	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	3050B	6020	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	3060A	7199	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	3550B	8081A	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	3550B	8082	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	3550B	8151A	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	3550B	8270C	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	3550B	8270C SIM	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	Gen Prep	314.0	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	Gen Prep	9045M	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	METHOD	300.0	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	METHOD	7471A	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5DUP	P166092D271357A	DUP	3060A	7199	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5MS	P166092R271432A	MS	3060A	7199	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-133-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.0	J	0.86	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SED-016-SIV-SD-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.30	J	0.993	MDL	5.58	PQL	mg/Kg	J	Z
IRON	19300		5.26	MDL	22.3	PQL	mg/Kg	J	E
POTASSIUM	2780		20.1	MDL	55.8	PQL	mg/Kg	J	Q
SODIUM	89.4	J	41.6	MDL	112	PQL	mg/Kg	J	Z

Sample ID: SED-016-SIV-SD-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2450		6.84	MDL	22.3	PQL	mg/Kg	J	A
LITHIUM	22.0		0.25	MDL	2.2	PQL	mg/Kg	J	E
MAGNESIUM	4220		2.83	MDL	11.2	PQL	mg/Kg	J	A
MANGANESE	260		0.0871	MDL	0.558	PQL	mg/Kg	J	E, E
PHOSPHORUS	299		0.625	MDL	11.2	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	14.0		0.0692	MDL	0.558	PQL	mg/Kg	J	E
TIN	2.59	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.30	J	0.938	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SED-018-SIV-SD-0.0-0.5

Collected: 12/15/2010 12:31:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20100		5.18	MDL	22.0	PQL	mg/Kg	J	E
POTASSIUM	3880		19.8	MDL	54.9	PQL	mg/Kg	J	Q
SODIUM	71.2	J	41.0	MDL	110	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SED-018-SIV-SD-0.0-0.5

Collected: 12/15/2010 12:31:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3310		6.74	MDL	22.0	PQL	mg/Kg	J	A
LITHIUM	27.1		0.24	MDL	2.2	PQL	mg/Kg	J	E
MAGNESIUM	4410		2.79	MDL	11.0	PQL	mg/Kg	J	A
MANGANESE	306		0.0857	MDL	0.549	PQL	mg/Kg	J	E, E
PHOSPHORUS	394		0.615	MDL	11.0	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	14.8		0.0681	MDL	0.549	PQL	mg/Kg	J	E
TIN	2.55	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.38	J	0.923	MDL	5.49	PQL	mg/Kg	J	Z

Sample ID: SED-021-SIV-SD-0.0-0.5

Collected: 12/15/2010 9:21:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.56	J	0.919	MDL	5.17	PQL	mg/Kg	J	Z
IRON	16900		4.87	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	2920		18.6	MDL	51.7	PQL	mg/Kg	J	Q
SODIUM	63.5	J	38.5	MDL	103	PQL	mg/Kg	J	Z

Sample ID: SED-021-SIV-SD-0.0-0.5

Collected: 12/15/2010 9:21:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1820		6.33	MDL	20.7	PQL	mg/Kg	J	A
LITHIUM	19.8		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	3980		2.62	MDL	10.3	PQL	mg/Kg	J	A
MANGANESE	239		0.0806	MDL	0.517	PQL	mg/Kg	J	E, E
PHOSPHORUS	324		0.579	MDL	10.3	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	7.16		0.0641	MDL	0.517	PQL	mg/Kg	J	E
TIN	2.17	J	1.03	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-131-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:25:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	22500		4.71	MDL	20.0	PQL	mg/Kg	J	E
POTASSIUM	3720		18.0	MDL	50.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-131-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3180		6.13	MDL	20.0	PQL	mg/Kg	J	A
LITHIUM	20.8		0.22	MDL	2.0	PQL	mg/Kg	J	E
MAGNESIUM	4620		2.54	MDL	10.0	PQL	mg/Kg	J	A
MANGANESE	331		0.0780	MDL	0.500	PQL	mg/Kg	J	E, E
PHOSPHORUS	422		0.560	MDL	10.0	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	20.3		0.0620	MDL	0.500	PQL	mg/Kg	J	E
TIN	2.49	J	1.00	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	3.08	J	0.840	MDL	5.00	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:05:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20200		5.15	MDL	21.9	PQL	mg/Kg	J	E
POTASSIUM	2520		19.7	MDL	54.7	PQL	mg/Kg	J	Q

Sample ID: SL-132-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3050		6.70	MDL	21.9	PQL	mg/Kg	J	A
LITHIUM	15.5		0.24	MDL	2.2	PQL	mg/Kg	J	E
MAGNESIUM	3690		2.78	MDL	10.9	PQL	mg/Kg	J	A
MANGANESE	219		0.0853	MDL	0.547	PQL	mg/Kg	J	E, E
PHOSPHORUS	399		0.612	MDL	10.9	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	26.7		0.0678	MDL	0.547	PQL	mg/Kg	J	E
TIN	2.60	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.36	J	0.918	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-133-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18700		5.00	MDL	21.2	PQL	mg/Kg	J	E
POTASSIUM	2550		19.1	MDL	53.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-133-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3070		6.51	MDL	21.2	PQL	mg/Kg	J	A
LITHIUM	15.8		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	3560		2.70	MDL	10.6	PQL	mg/Kg	J	A
MANGANESE	211		0.0829	MDL	0.531	PQL	mg/Kg	J	E, E
PHOSPHORUS	412		0.595	MDL	10.6	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	20.4		0.0659	MDL	0.531	PQL	mg/Kg	J	E
TIN	2.24	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.92	J	0.892	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-134-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.96	J	0.918	MDL	5.15	PQL	mg/Kg	J	Z
IRON	19300		4.86	MDL	20.6	PQL	mg/Kg	J	E
POTASSIUM	2550		18.6	MDL	51.5	PQL	mg/Kg	J	Q

Sample ID: SL-134-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2490		6.32	MDL	20.6	PQL	mg/Kg	J	A
LITHIUM	19.8		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	3630		2.62	MDL	10.3	PQL	mg/Kg	J	A
MANGANESE	213		0.0804	MDL	0.515	PQL	mg/Kg	J	E, E
PHOSPHORUS	330		0.577	MDL	10.3	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	15.6		0.0639	MDL	0.515	PQL	mg/Kg	J	E
TIN	2.32	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.38	J	0.866	MDL	5.15	PQL	mg/Kg	J	Z

Sample ID: SL-135-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:13:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20800		5.08	MDL	21.6	PQL	mg/Kg	J	E
POTASSIUM	3280		19.4	MDL	53.9	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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ADR version 1.3.0.71

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-135-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:13:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2960		6.61	MDL	21.6	PQL	mg/Kg	J	A
LITHIUM	21.3		0.24	MDL	2.2	PQL	mg/Kg	J	E
MAGNESIUM	4500		2.74	MDL	10.8	PQL	mg/Kg	J	A
MANGANESE	250		0.0841	MDL	0.539	PQL	mg/Kg	J	E, E
PHOSPHORUS	414		0.604	MDL	10.8	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	13.8		0.0669	MDL	0.539	PQL	mg/Kg	J	E
TIN	2.56	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.84	J	0.906	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-136-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:50:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.64	J	0.976	MDL	5.48	PQL	mg/Kg	J	Z
IRON	21400		5.16	MDL	21.9	PQL	mg/Kg	J	E
POTASSIUM	3240		19.7	MDL	54.8	PQL	mg/Kg	J	Q

Sample ID: SL-136-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4040		6.72	MDL	21.9	PQL	mg/Kg	J	A
LITHIUM	17.1		0.24	MDL	2.2	PQL	mg/Kg	J	E
MAGNESIUM	4070		2.79	MDL	11.0	PQL	mg/Kg	J	A
MANGANESE	216		0.0855	MDL	0.548	PQL	mg/Kg	J	E, E
PHOSPHORUS	791		0.614	MDL	11.0	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	25.0		0.0680	MDL	0.548	PQL	mg/Kg	J	E
TIN	2.25	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.39	J	0.921	MDL	5.48	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:50:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	22600		4.87	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	3020		18.6	MDL	51.7	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-149-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3370		6.34	MDL	20.7	PQL	mg/Kg	J	A
LITHIUM	21.9		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	4170		2.63	MDL	10.3	PQL	mg/Kg	J	A
MANGANESE	294		0.0806	MDL	0.517	PQL	mg/Kg	J	E, E
PHOSPHORUS	382		0.579	MDL	10.3	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	18.8		0.0641	MDL	0.517	PQL	mg/Kg	J	E
TIN	2.46	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.39	J	0.868	MDL	5.17	PQL	mg/Kg	J	Z

Sample ID: SL-150-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:10:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	25100		4.86	MDL	20.6	PQL	mg/Kg	J	E
POTASSIUM	3360		18.6	MDL	51.6	PQL	mg/Kg	J	Q

Sample ID: SL-150-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3330		6.33	MDL	20.6	PQL	mg/Kg	J	A
LITHIUM	27.3		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	5180		2.62	MDL	10.3	PQL	mg/Kg	J	A
MANGANESE	286		0.0805	MDL	0.516	PQL	mg/Kg	J	E, E
PHOSPHORUS	369		0.578	MDL	10.3	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	20.1		0.0640	MDL	0.516	PQL	mg/Kg	J	E
TIN	2.89	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	0.993	J	0.867	MDL	5.16	PQL	mg/Kg	J	Z

Sample ID: SL-153-SA5B-SS-0.0-0.5

Collected: 12/15/2010 2:08:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	21400		5.22	MDL	22.2	PQL	mg/Kg	J	E
POTASSIUM	3000		19.9	MDL	55.4	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-153-SA5B-SS-0.0-0.5

Collected: 12/15/2010 2:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3630		6.79	MDL	22.2	PQL	mg/Kg	J	A
LITHIUM	17.3		0.24	MDL	2.2	PQL	mg/Kg	J	E
MAGNESIUM	4110		2.81	MDL	11.1	PQL	mg/Kg	J	A
MANGANESE	274		0.0864	MDL	0.554	PQL	mg/Kg	J	E, E
PHOSPHORUS	336		0.620	MDL	11.1	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	26.8		0.0687	MDL	0.554	PQL	mg/Kg	J	E
TIN	2.54	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.00	J	0.931	MDL	5.54	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	25700		4.87	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	3820		18.6	MDL	51.7	PQL	mg/Kg	J	Q

Sample ID: SL-155-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3280		6.34	MDL	20.7	PQL	mg/Kg	J	A
LITHIUM	24.4		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	4760		2.63	MDL	10.3	PQL	mg/Kg	J	A
MANGANESE	331		0.0807	MDL	0.517	PQL	mg/Kg	J	E, E
PHOSPHORUS	483		0.579	MDL	10.3	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	25.0		0.0641	MDL	0.517	PQL	mg/Kg	J	E
TIN	2.58	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.99	J	0.869	MDL	5.17	PQL	mg/Kg	J	Z

Sample ID: SL-156-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:32:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	22300		5.01	MDL	21.3	PQL	mg/Kg	J	E
POTASSIUM	3620		19.1	MDL	53.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-156-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:32:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3270		6.52	MDL	21.3	PQL	mg/Kg	J	A
LITHIUM	19.5		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	4010		2.70	MDL	10.6	PQL	mg/Kg	J	A
MANGANESE	371		0.0830	MDL	0.532	PQL	mg/Kg	J	E, E
PHOSPHORUS	310		0.596	MDL	10.6	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	22.1		0.0659	MDL	0.532	PQL	mg/Kg	J	E
TIN	2.51	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.60	J	0.893	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:26:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20000		5.02	MDL	21.3	PQL	mg/Kg	J	E
POTASSIUM	3310		19.2	MDL	53.3	PQL	mg/Kg	J	Q
SODIUM	102	J	39.7	MDL	107	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:26:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3150		6.53	MDL	21.3	PQL	mg/Kg	J	A
LITHIUM	17.3		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	3340		2.71	MDL	10.7	PQL	mg/Kg	J	A
MANGANESE	327		0.0831	MDL	0.533	PQL	mg/Kg	J	E, E
PHOSPHORUS	258		0.597	MDL	10.7	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	25.5		0.0661	MDL	0.533	PQL	mg/Kg	J	E
TIN	2.56	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.27	J	0.895	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-203-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:00:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	23900		4.89	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	3940		18.7	MDL	51.9	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-203-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3520		6.36	MDL	20.7	PQL	mg/Kg	J	A
LITHIUM	21.6		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	4420		2.64	MDL	10.4	PQL	mg/Kg	J	A
MANGANESE	290		0.0809	MDL	0.519	PQL	mg/Kg	J	E, E
PHOSPHORUS	386		0.581	MDL	10.4	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	25.0		0.0643	MDL	0.519	PQL	mg/Kg	J	E
TIN	2.62	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.46	J	0.871	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: SL-204-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:51:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.93	J	0.944	MDL	5.31	PQL	mg/Kg	J	Z
IRON	21200		5.00	MDL	21.2	PQL	mg/Kg	J	E
POTASSIUM	2590		19.1	MDL	53.1	PQL	mg/Kg	J	Q

Sample ID: SL-204-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:51:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3330		6.51	MDL	21.2	PQL	mg/Kg	J	A
LITHIUM	20.0		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	3900		2.70	MDL	10.6	PQL	mg/Kg	J	A
MANGANESE	262		0.0828	MDL	0.531	PQL	mg/Kg	J	E, E
PHOSPHORUS	356		0.594	MDL	10.6	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	24.4		0.0658	MDL	0.531	PQL	mg/Kg	J	E
TIN	2.56	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.02	J	0.891	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-257-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:25:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.19	J	0.960	MDL	5.39	PQL	mg/Kg	J	Z
IRON	20000		5.08	MDL	21.6	PQL	mg/Kg	J	E
POTASSIUM	2670		19.4	MDL	53.9	PQL	mg/Kg	J	Q
SODIUM	89.8	J	40.2	MDL	108	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-257-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2640		6.61	MDL	21.6	PQL	mg/Kg	J	A
LITHIUM	21.7		0.24	MDL	2.2	PQL	mg/Kg	J	E
MAGNESIUM	3840		2.74	MDL	10.8	PQL	mg/Kg	J	A
MANGANESE	255		0.0841	MDL	0.539	PQL	mg/Kg	J	E, E
PHOSPHORUS	317		0.604	MDL	10.8	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	14.9		0.0669	MDL	0.539	PQL	mg/Kg	J	E
TIN	3.01	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.26	J	0.906	MDL	5.39	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-016-SIV-SD-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0957	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SED-016-SIV-SD-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	69.7		0.118	MDL	0.438	PQL	mg/Kg	J	A

Sample ID: SED-016-SIV-SD-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0657	U	0.0657	MDL	0.219	PQL	mg/Kg	UJ	Q
ARSENIC	4.07		0.0657	MDL	0.438	PQL	mg/Kg	J	Q
CHROMIUM	17.9		0.131	MDL	0.438	PQL	mg/Kg	J	Q, E, A
COBALT	4.65		0.0219	MDL	0.109	PQL	mg/Kg	J	A
LEAD	6.00		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, E, A
NICKEL	10.3		0.109	MDL	0.438	PQL	mg/Kg	J	E, A
SILVER	0.0265	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	32.7		0.0241	MDL	0.109	PQL	mg/Kg	J	Q, A
ZINC	62.4		0.613	MDL	3.28	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-018-SIV-SD-0.0-0.5

Collected: 12/15/2010 12:31:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.155	J	0.0440	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SED-018-SIV-SD-0.0-0.5

Collected: 12/15/2010 12:31:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	80.1		0.119	MDL	0.440	PQL	mg/Kg	J	A

Sample ID: SED-018-SIV-SD-0.0-0.5

Collected: 12/15/2010 12:31:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0659	U	0.0659	MDL	0.220	PQL	mg/Kg	UJ	Q
ARSENIC	4.12		0.0659	MDL	0.440	PQL	mg/Kg	J	Q
CHROMIUM	15.9		0.132	MDL	0.440	PQL	mg/Kg	J	Q, E, A
COBALT	4.39		0.0220	MDL	0.110	PQL	mg/Kg	J	A
LEAD	7.20		0.0114	MDL	0.220	PQL	mg/Kg	J	Q, E, A
NICKEL	9.70		0.110	MDL	0.440	PQL	mg/Kg	J	E, A
SILVER	0.0255	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	28.6		0.0242	MDL	0.110	PQL	mg/Kg	J	Q, A
ZINC	54.9		0.615	MDL	3.30	PQL	mg/Kg	J	E, A

Sample ID: SED-021-SIV-SD-0.0-0.5

Collected: 12/15/2010 9:21:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0924	J	0.0405	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SED-021-SIV-SD-0.0-0.5

Collected: 12/15/2010 9:21:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	62.3		0.109	MDL	0.405	PQL	mg/Kg	J	A

Sample ID: SED-021-SIV-SD-0.0-0.5

Collected: 12/15/2010 9:21:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0608	U	0.0608	MDL	0.203	PQL	mg/Kg	UJ	Q
ARSENIC	2.43		0.0608	MDL	0.405	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-021-SIV-SD-0.0-0.5

Collected: 12/15/2010 9:21:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0800	J	0.0365	MDL	0.101	PQL	mg/Kg	J	Z
CHROMIUM	12.5		0.122	MDL	0.405	PQL	mg/Kg	J	Q, E, A
COBALT	3.62		0.0203	MDL	0.101	PQL	mg/Kg	J	A
LEAD	5.31		0.0105	MDL	0.203	PQL	mg/Kg	J	Q, E, A
NICKEL	6.99		0.101	MDL	0.405	PQL	mg/Kg	J	E, A
SILVER	0.0170	J	0.0122	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	26.8		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, A
ZINC	42.6		0.567	MDL	3.04	PQL	mg/Kg	J	E, A

Sample ID: SL-131-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.128	J	0.0420	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-131-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:25:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.113	MDL	0.420	PQL	mg/Kg	J	A

Sample ID: SL-131-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0800	J	0.0630	MDL	0.210	PQL	mg/Kg	J	Z, Q
ARSENIC	4.13		0.0630	MDL	0.420	PQL	mg/Kg	J	Q
CHROMIUM	26.1		0.126	MDL	0.420	PQL	mg/Kg	J	Q, E, A
COBALT	6.36		0.0210	MDL	0.105	PQL	mg/Kg	J	A
LEAD	18.9		0.0109	MDL	0.210	PQL	mg/Kg	J	Q, E, A
NICKEL	16.6		0.105	MDL	0.420	PQL	mg/Kg	J	E, A
SILVER	0.0671	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	41.0		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, A
ZINC	103		0.588	MDL	3.15	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-132-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:05:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.130	J	0.0442	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:05:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	84.9		0.119	MDL	0.442	PQL	mg/Kg	J	A

Sample ID: SL-132-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:05:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0662	U	0.0662	MDL	0.221	PQL	mg/Kg	UJ	Q
ARSENIC	3.84		0.0662	MDL	0.442	PQL	mg/Kg	J	Q
CHROMIUM	22.6		0.132	MDL	0.442	PQL	mg/Kg	J	Q, E, A
COBALT	5.22		0.0221	MDL	0.110	PQL	mg/Kg	J	A
LEAD	19.8		0.0115	MDL	0.221	PQL	mg/Kg	J	Q, E, A
NICKEL	14.3		0.110	MDL	0.442	PQL	mg/Kg	J	E, A
SILVER	0.109	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	37.2		0.0243	MDL	0.110	PQL	mg/Kg	J	Q, A
ZINC	76.6		0.618	MDL	3.31	PQL	mg/Kg	J	E, A

Sample ID: SL-133-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.125	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-133-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	58.2		0.114	MDL	0.421	PQL	mg/Kg	J	A

Sample ID: SL-133-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.141	J	0.0631	MDL	0.210	PQL	mg/Kg	J	Z, Q
ARSENIC	2.81		0.0631	MDL	0.421	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-133-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	14.1		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E, A
COBALT	3.76		0.0210	MDL	0.105	PQL	mg/Kg	J	A
LEAD	9.98		0.0109	MDL	0.210	PQL	mg/Kg	J	Q, E, A
NICKEL	11.6		0.105	MDL	0.421	PQL	mg/Kg	J	E, A
SILVER	0.0610	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	30.1		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, A
ZINC	91.5		0.589	MDL	3.16	PQL	mg/Kg	J	E, A

Sample ID: SL-134-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.101	J	0.0408	MDL	0.408	PQL	mg/Kg	J	Z

Sample ID: SL-134-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	72.6		0.110	MDL	0.408	PQL	mg/Kg	J	A

Sample ID: SL-134-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.118	J	0.0613	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	4.77		0.0613	MDL	0.408	PQL	mg/Kg	J	Q
CHROMIUM	28.1		0.123	MDL	0.408	PQL	mg/Kg	J	Q, E, A
COBALT	5.29		0.0204	MDL	0.102	PQL	mg/Kg	J	A
LEAD	13.8		0.0106	MDL	0.204	PQL	mg/Kg	J	Q, E, A
NICKEL	17.6		0.102	MDL	0.408	PQL	mg/Kg	J	E, A
VANADIUM	37.0		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, A
ZINC	66.3		0.572	MDL	3.06	PQL	mg/Kg	J	E, A

Sample ID: SL-135-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:13:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0906	J	0.0440	MDL	0.440	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-135-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:13:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	66.1		0.119	MDL	0.440	PQL	mg/Kg	J	A

Sample ID: SL-135-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:13:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.207	J	0.0660	MDL	0.220	PQL	mg/Kg	J	Z, Q
ARSENIC	4.00		0.0660	MDL	0.440	PQL	mg/Kg	J	Q
CHROMIUM	16.9		0.132	MDL	0.440	PQL	mg/Kg	J	Q, E, A
COBALT	4.26		0.0220	MDL	0.110	PQL	mg/Kg	J	A
LEAD	80.9		0.0114	MDL	0.220	PQL	mg/Kg	J	Q, E, A
NICKEL	11.7		0.110	MDL	0.440	PQL	mg/Kg	J	E, A
VANADIUM	29.7		0.0242	MDL	0.110	PQL	mg/Kg	J	Q, A
ZINC	105		0.616	MDL	3.30	PQL	mg/Kg	J	E, A

Sample ID: SL-136-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:50:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.104	J	0.0426	MDL	0.426	PQL	mg/Kg	J	Z

Sample ID: SL-136-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:50:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	144		0.115	MDL	0.426	PQL	mg/Kg	J	A

Sample ID: SL-136-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:50:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.150	J	0.0639	MDL	0.213	PQL	mg/Kg	J	Z, Q
ARSENIC	4.75		0.0639	MDL	0.426	PQL	mg/Kg	J	Q
CHROMIUM	25.0		0.128	MDL	0.426	PQL	mg/Kg	J	Q, E, A
COBALT	5.60		0.0213	MDL	0.106	PQL	mg/Kg	J	A
LEAD	44.6		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, E, A
NICKEL	14.5		0.106	MDL	0.426	PQL	mg/Kg	J	E, A
VANADIUM	38.4		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, A
ZINC	145		0.596	MDL	3.19	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-149-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:50:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	289		1.46	MDL	7.83	PQL	mg/Kg	J	E, A

Sample ID: SL-149-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:50:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.130	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:50:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	83.5		0.113	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-149-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:50:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0979	J	0.0626	MDL	0.209	PQL	mg/Kg	J	Z, Q
ARSENIC	5.28		0.0626	MDL	0.418	PQL	mg/Kg	J	Q
CHROMIUM	36.3		0.125	MDL	0.418	PQL	mg/Kg	J	Q, E, A
COBALT	6.07		0.0209	MDL	0.104	PQL	mg/Kg	J	A
LEAD	14.4		0.0109	MDL	0.209	PQL	mg/Kg	J	Q, E, A
NICKEL	22.3		0.104	MDL	0.418	PQL	mg/Kg	J	E, A
SILVER	0.0767	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	37.8		0.0230	MDL	0.104	PQL	mg/Kg	J	Q, A

Sample ID: SL-150-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:10:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-150-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:10:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.5		0.114	MDL	0.421	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-150-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.139	J	0.0632	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	5.71		0.0632	MDL	0.421	PQL	mg/Kg	J	Q
CHROMIUM	34.9		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E, A
COBALT	6.56		0.0211	MDL	0.105	PQL	mg/Kg	J	A
LEAD	18.1		0.0109	MDL	0.211	PQL	mg/Kg	J	Q, E, A
NICKEL	21.9		0.105	MDL	0.421	PQL	mg/Kg	J	E, A
SILVER	0.0714	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	43.8		0.0232	MDL	0.105	PQL	mg/Kg	J	Q, A
ZINC	91.7		0.589	MDL	3.16	PQL	mg/Kg	J	E, A

Sample ID: SL-153-SA5B-SS-0.0-0.5

Collected: 12/15/2010 2:08:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.117	J	0.0452	MDL	0.452	PQL	mg/Kg	J	Z

Sample ID: SL-153-SA5B-SS-0.0-0.5

Collected: 12/15/2010 2:08:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.2		0.122	MDL	0.452	PQL	mg/Kg	J	A

Sample ID: SL-153-SA5B-SS-0.0-0.5

Collected: 12/15/2010 2:08:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.143	J	0.0678	MDL	0.226	PQL	mg/Kg	J	Z, Q
ARSENIC	4.42		0.0678	MDL	0.452	PQL	mg/Kg	J	Q
CHROMIUM	25.1		0.136	MDL	0.452	PQL	mg/Kg	J	Q, E, A
COBALT	6.13		0.0226	MDL	0.113	PQL	mg/Kg	J	A
LEAD	32.4		0.0117	MDL	0.226	PQL	mg/Kg	J	Q, E, A
NICKEL	16.0		0.113	MDL	0.452	PQL	mg/Kg	J	E, A
SILVER	0.108	J	0.0136	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	41.9		0.0248	MDL	0.113	PQL	mg/Kg	J	Q, A
ZINC	84.1		0.633	MDL	3.39	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-155-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0925	J	0.0410	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	84.6		0.111	MDL	0.410	PQL	mg/Kg	J	A

Sample ID: SL-155-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.148	J	0.0615	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	4.13		0.0615	MDL	0.410	PQL	mg/Kg	J	Q
CHROMIUM	22.3		0.123	MDL	0.410	PQL	mg/Kg	J	Q, E, A
COBALT	4.68		0.0205	MDL	0.102	PQL	mg/Kg	J	A
LEAD	6.90		0.0107	MDL	0.205	PQL	mg/Kg	J	Q, E, A
NICKEL	13.3		0.102	MDL	0.410	PQL	mg/Kg	J	E, A
SILVER	0.0459	J	0.0123	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	32.0		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, A
ZINC	50.5		0.574	MDL	3.07	PQL	mg/Kg	J	E, A

Sample ID: SL-156-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:32:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0985	J	0.0425	MDL	0.425	PQL	mg/Kg	J	Z

Sample ID: SL-156-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:32:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.7		0.115	MDL	0.425	PQL	mg/Kg	J	A

Sample ID: SL-156-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:32:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.115	J	0.0638	MDL	0.213	PQL	mg/Kg	J	Z, Q
ARSENIC	4.15		0.0638	MDL	0.425	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-156-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:32:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	25.9		0.128	MDL	0.425	PQL	mg/Kg	J	Q, E, A
COBALT	5.49		0.0213	MDL	0.106	PQL	mg/Kg	J	A
LEAD	43.0		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, E, A
NICKEL	14.6		0.106	MDL	0.425	PQL	mg/Kg	J	E, A
VANADIUM	35.9		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, A
ZINC	69.1		0.596	MDL	3.19	PQL	mg/Kg	J	E, A

Sample ID: SL-181-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:26:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.147	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:26:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.113	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-181-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:26:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.175	J	0.0627	MDL	0.209	PQL	mg/Kg	J	Z, Q
ARSENIC	5.38		0.0627	MDL	0.418	PQL	mg/Kg	J	Q
CHROMIUM	24.0		0.125	MDL	0.418	PQL	mg/Kg	J	Q, E, A
COBALT	6.23		0.0209	MDL	0.105	PQL	mg/Kg	J	A
LEAD	12.8		0.0109	MDL	0.209	PQL	mg/Kg	J	Q, E, A
NICKEL	15.1		0.105	MDL	0.418	PQL	mg/Kg	J	E, A
SILVER	0.0727	J	0.0125	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	40.9		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, A
ZINC	58.8		0.585	MDL	3.14	PQL	mg/Kg	J	E, A

Sample ID: SL-203-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:00:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.112	J	0.0427	MDL	0.427	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-203-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:00:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.115	MDL	0.427	PQL	mg/Kg	J	A

Sample ID: SL-203-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.134	J	0.0641	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	6.13		0.0641	MDL	0.427	PQL	mg/Kg	J	Q
CHROMIUM	25.7		0.128	MDL	0.427	PQL	mg/Kg	J	Q, E, A
COBALT	6.21		0.0214	MDL	0.107	PQL	mg/Kg	J	A
LEAD	8.50		0.0111	MDL	0.214	PQL	mg/Kg	J	Q, E, A
NICKEL	15.4		0.107	MDL	0.427	PQL	mg/Kg	J	E, A
SILVER	0.0325	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	40.9		0.0235	MDL	0.107	PQL	mg/Kg	J	Q, A
ZINC	61.8		0.598	MDL	3.20	PQL	mg/Kg	J	E, A

Sample ID: SL-204-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:51:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.146	J	0.0412	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-204-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:51:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.9		0.111	MDL	0.412	PQL	mg/Kg	J	A

Sample ID: SL-204-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:51:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0824	J	0.0618	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	4.59		0.0618	MDL	0.412	PQL	mg/Kg	J	Q
CHROMIUM	18.5		0.124	MDL	0.412	PQL	mg/Kg	J	Q, E, A
COBALT	5.99		0.0206	MDL	0.103	PQL	mg/Kg	J	A
LEAD	7.61		0.0107	MDL	0.206	PQL	mg/Kg	J	Q, E, A
NICKEL	11.7		0.103	MDL	0.412	PQL	mg/Kg	J	E, A
SILVER	0.0326	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS
Method:	6020
Matrix:	SO

Sample ID: SL-204-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:51:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	32.6		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, A
ZINC	60.7		0.577	MDL	3.09	PQL	mg/Kg	J	E, A

Sample ID: SL-257-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0807	J	0.0436	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SL-257-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:25:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	69.0		0.118	MDL	0.436	PQL	mg/Kg	J	A

Sample ID: SL-257-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.132	J	0.0654	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	4.80		0.0654	MDL	0.436	PQL	mg/Kg	J	Q
CHROMIUM	19.3		0.131	MDL	0.436	PQL	mg/Kg	J	Q, E, A
COBALT	5.17		0.0218	MDL	0.109	PQL	mg/Kg	J	A
LEAD	16.9		0.0113	MDL	0.218	PQL	mg/Kg	J	Q, E, A
NICKEL	11.8		0.109	MDL	0.436	PQL	mg/Kg	J	E, A
VANADIUM	33.8		0.0240	MDL	0.109	PQL	mg/Kg	J	Q, A
ZINC	81.0		0.610	MDL	3.27	PQL	mg/Kg	J	E, A

Method Category:	METALS
Method:	7199
Matrix:	SO

Sample ID: SED-016-SIV-SD-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.81	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SED-018-SIV-SD-0.0-0.5

Collected: 12/15/2010 12:31:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.73	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-134-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.59	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-150-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.82	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:26:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.63	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-203-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-204-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:51:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SED-016-SIV-SD-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0469	J	0.0032	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SED-018-SIV-SD-0.0-0.5

Collected: 12/15/2010 12:31:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0097	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-131-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0421	J	0.0028	MDL	0.0984	PQL	mg/Kg	J	Z

Sample ID: SL-134-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0181	J	0.0029	MDL	0.0999	PQL	mg/Kg	J	Z

Sample ID: SL-136-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0387	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0199	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-150-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0135	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-153-SA5B-SS-0.0-0.5

Collected: 12/15/2010 2:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0513	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0084	J	0.0030	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-156-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:32:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0880	J	0.0030	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:26:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0128	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-203-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0451	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-204-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:51:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0060	J	0.0028	MDL	0.0994	PQL	mg/Kg	J	Z

Sample ID: SL-257-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0062	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS		
Method:	7471A	Matrix:	SO

Method Category:	SVOA		
Method:	8081A	Matrix:	SO

Sample ID: SED-016-SIV-SD-0.0-0.5 Collected: 12/15/2010 1:41:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	L

Sample ID: SED-018-SIV-SD-0.0-0.5 Collected: 12/15/2010 12:31:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.078	J	0.040	MDL	0.18	PQL	ug/Kg	J	Z, S
ENDOSULFAN II	0.073	U	0.073	MDL	0.38	PQL	ug/Kg	UJ	L
HEPTACHLOR	0.12	J	0.067	MDL	0.18	PQL	ug/Kg	J	Z, S

Sample ID: SED-021-SIV-SD-0.0-0.5 Collected: 12/15/2010 9:21:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
4,4'-DDE	0.18	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z, S
4,4'-DDT	0.62		0.070	MDL	0.36	PQL	ug/Kg	J	S
ALDRIN	0.070	U	0.070	MDL	0.17	PQL	ug/Kg	R	S
ALPHA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	R	S
BETA-BHC	0.16	U	0.16	MDL	0.17	PQL	ug/Kg	R	S
Chlordane	0.84	U	0.84	MDL	3.6	PQL	ug/Kg	R	S
DELTA-BHC	0.81		0.038	MDL	0.17	PQL	ug/Kg	J	S
DIELDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDOSULFAN I	0.046	U	0.046	MDL	0.17	PQL	ug/Kg	R	S
ENDOSULFAN II	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN KETONE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	1.3		0.036	MDL	0.17	PQL	ug/Kg	J	S
HEPTACHLOR	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	R	S
METHOXYCHLOR	0.36	U	0.36	MDL	1.7	PQL	ug/Kg	R	S
MIREX	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SED-021-SIV-SD-0.0-0.5

Collected: 12/15/2010 9:21:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOXAPHENE	2.3	U	2.3	MDL	7.0	PQL	ug/Kg	R	S

Sample ID: SL-131-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	L

Sample ID: SL-132-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:05:00

Analysis Type: DL-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	1.7	U	1.7	MDL	8.8	PQL	ug/Kg	UJ	L

Sample ID: SL-132-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR	0.36	J	0.31	MDL	0.86	PQL	ug/Kg	J	Z

Sample ID: SL-133-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	1.4	U	1.4	MDL	7.3	PQL	ug/Kg	UJ	L

Sample ID: SL-134-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.073	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z, S
DELTA-BHC	0.054	J	0.038	MDL	0.17	PQL	ug/Kg	J	Z, S
ENDOSULFAN II	0.18	U	0.18	MDL	0.36	PQL	ug/Kg	UJ	L

Sample ID: SL-135-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:13:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.73	U	0.73	MDL	3.8	PQL	ug/Kg	UJ	L
gamma-BHC (Lindane)	0.87	J	0.38	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-136-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	L

Sample ID: SL-149-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.19	U	0.19	MDL	0.35	PQL	ug/Kg	UJ	S
4,4'-DDE	0.25	U	0.25	MDL	0.35	PQL	ug/Kg	UJ	S
4,4'-DDT	1.3	U	1.3	MDL	1.3	PQL	ug/Kg	UJ	S
ALDRIN	0.069	U	0.069	MDL	0.17	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	S
BETA-BHC	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	S
Chlordane	0.84	U	0.84	MDL	3.5	PQL	ug/Kg	UJ	S
DELTA-BHC	0.038	U	0.038	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.85	U	0.85	MDL	0.85	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.046	U	0.046	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	L, S
ENDOSULFAN SULFATE	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN	0.11	U	0.11	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.19	U	0.19	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.12	U	0.12	MDL	0.17	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	S
TOXAPHENE	2.3	U	2.3	MDL	6.9	PQL	ug/Kg	UJ	S

Sample ID: SL-150-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.078	J	0.063	MDL	0.17	PQL	ug/Kg	J	Z
DELTA-BHC	0.059	J	0.038	MDL	0.17	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-153-SA5B-SS-0.0-0.5

Collected: 12/15/2010 2:08:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.12	U	0.12	MDL	0.39	PQL	ug/Kg	UJ	L

Sample ID: SL-155-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.098	U	0.098	MDL	0.36	PQL	ug/Kg	UJ	L
ENDRIN	0.10	J	0.069	MDL	0.36	PQL	ug/Kg	J	Z

Sample ID: SL-156-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:32:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	1.4	U	1.4	MDL	7.3	PQL	ug/Kg	UJ	L

Sample ID: SL-181-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:26:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.045	J	0.039	MDL	0.18	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	L

Sample ID: SL-203-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	1.0	U	1.0	MDL	1.0	PQL	ug/Kg	R	S
4,4'-DDE	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	R	S
4,4'-DDT	1.1	U	1.1	MDL	1.1	PQL	ug/Kg	R	S
ALDRIN	0.072	U	0.072	MDL	0.18	PQL	ug/Kg	R	S
ALPHA-BHC	0.056	U	0.056	MDL	0.18	PQL	ug/Kg	R	S
Chlordane	0.87	U	0.87	MDL	3.7	PQL	ug/Kg	R	S
DELTA-BHC	0.039	U	0.039	MDL	0.18	PQL	ug/Kg	R	S
DIELDRIN	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	R	S
ENDOSULFAN I	0.048	U	0.048	MDL	0.18	PQL	ug/Kg	R	S
ENDOSULFAN II	0.17	U	0.17	MDL	0.37	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	R	S
ENDRIN	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	1.6	U	1.6	MDL	1.6	PQL	ug/Kg	R	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-203-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN KETONE	0.17	U	0.17	MDL	0.37	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.059	U	0.059	MDL	0.18	PQL	ug/Kg	R	S
HEPTACHLOR	0.21	U	0.21	MDL	0.21	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.070	U	0.070	MDL	0.18	PQL	ug/Kg	R	S
MIREX	2.2	U	2.2	MDL	2.2	PQL	ug/Kg	R	S
TOXAPHENE	2.4	U	2.4	MDL	7.2	PQL	ug/Kg	R	S

Sample ID: SL-204-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:51:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	L

Sample ID: SL-257-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.056	J	0.038	MDL	0.18	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.073	U	0.073	MDL	0.38	PQL	ug/Kg	UJ	L
HEPTACHLOR	0.17	J	0.067	MDL	0.18	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SED-018-SIV-SD-0.0-0.5

Collected: 12/15/2010 12:31:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.1	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	1.1	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-131-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:25:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.3	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8082	Matrix:	SO

Sample ID: SL-134-SA5B-SS-0.0-0.5 Collected: 12/15/2010 10:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	17		0.69	MDL	3.6	PQL	ug/Kg	J	S
AROCLOR 1260	9.4		0.69	MDL	3.6	PQL	ug/Kg	J	S

Sample ID: SL-135-SA5B-SS-0.0-0.5 Collected: 12/15/2010 11:13:00 Analysis Type: REA Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	17	J	11	MDL	37	PQL	ug/Kg	J	Z

Sample ID: SL-135-SA5B-SS-0.0-0.5 Collected: 12/15/2010 11:13:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	9.7	J	3.7	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-149-SA5B-SS-0.0-0.5 Collected: 12/15/2010 3:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	3.0		0.34	MDL	1.8	PQL	ug/Kg	J	S
Aroclor 5460	5.0		1.0	MDL	3.4	PQL	ug/Kg	J	S

Sample ID: SL-153-SA5B-SS-0.0-0.5 Collected: 12/15/2010 2:08:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	26		0.76	MDL	3.9	PQL	ug/Kg	J	S
AROCLOR 1260	38		0.76	MDL	3.9	PQL	ug/Kg	J	S

Sample ID: SL-155-SA5B-SS-0.0-0.5 Collected: 12/15/2010 1:41:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	3.5		0.34	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1260	1.8		0.34	MDL	1.8	PQL	ug/Kg	J	S

Sample ID: SL-203-SA5B-SS-0.0-0.5 Collected: 12/15/2010 3:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.9	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA
Method:	8082
Matrix:	SO

Sample ID: SL-204-SA5B-SS-0.0-0.5 Collected: 12/15/2010 3:51:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.1	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-257-SA5B-SS-0.0-0.5 Collected: 12/15/2010 1:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.67	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	3.0	J	1.1	MDL	3.7	PQL	ug/Kg	J	Z

Method Category:	SVOA
Method:	8151A
Matrix:	SO

Sample ID: SED-016-SIV-SD-0.0-0.5 Collected: 12/15/2010 1:41:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SED-018-SIV-SD-0.0-0.5 Collected: 12/15/2010 12:31:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L
MCCP	200	J	83	MDL	280	PQL	ug/Kg	J	Z

Sample ID: SED-021-SIV-SD-0.0-0.5 Collected: 12/15/2010 9:21:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-131-SA5B-SS-0.0-0.5 Collected: 12/15/2010 11:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-132-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	7.2		0.70	MDL	1.9	PQL	ug/Kg	J	Q
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L
MCPA	180	J	86	MDL	280	PQL	ug/Kg	J	Z

Sample ID: SL-133-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-134-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPA	170	J	80	MDL	260	PQL	ug/Kg	J	Z
MCPP	200	J	79	MDL	260	PQL	ug/Kg	J	Z

Sample ID: SL-135-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:13:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.60	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-136-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.14	J	0.090	MDL	0.19	PQL	ug/Kg	J	Z
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L
MCPP	110	J	82	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-149-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-150-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-153-SA5B-SS-0.0-0.5

Collected: 12/15/2010 2:08:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.92	U	0.92	MDL	2.8	PQL	ug/Kg	R	L

Sample ID: SL-155-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.15	J	0.086	MDL	0.18	PQL	ug/Kg	J	Z
DICAMBA	0.48	J	0.42	MDL	1.3	PQL	ug/Kg	J	Z
DICHLOROPROP	1.2	J	0.84	MDL	1.8	PQL	ug/Kg	J	Z, L
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-156-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:32:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	2.2	J	1.3	MDL	3.9	PQL	ug/Kg	J	Z
DICAMBA	0.80	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z
DICHLOROPROP	0.97	J	0.86	MDL	1.8	PQL	ug/Kg	J	Z, L
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-181-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:26:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-203-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	3.7	J	1.3	MDL	3.9	PQL	ug/Kg	J	Z
DICAMBA	0.47	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DICHLOROPROP	22		0.87	MDL	1.9	PQL	ug/Kg	J	L
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-204-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:51:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	17	U	17	MDL	51	PQL	ug/Kg	R	L

Sample ID: SL-257-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SED-016-SIV-SD-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	28	J	19	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SED-018-SIV-SD-0.0-0.5

Collected: 12/15/2010 12:31:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SED-021-SIV-SD-0.0-0.5

Collected: 12/15/2010 9:21:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-131-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	35	J	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-132-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:05:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	3800	U	3800	MDL	11000	PQL	ug/Kg	R	Q
ANILINE	940	U	940	MDL	2800	PQL	ug/Kg	R	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-132-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	6600	U	6600	MDL	19000	PQL	ug/Kg	R	Q
HEXACHLOROCYCLOPENTADIENE	940	U	940	MDL	2800	PQL	ug/Kg	R	Q

Sample ID: SL-134-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-135-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:13:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	71	J	19	MDL	190	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	67	J	19	MDL	190	PQL	ug/Kg	J	Z
ANTHRACENE	21	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	85	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	73	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	92	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	46	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	44	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZOIC ACID	490	J	190	MDL	560	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	300	J	19	MDL	370	PQL	ug/Kg	J	Z
CHRYSENE	110	J	19	MDL	190	PQL	ug/Kg	J	Z
DIBENZOFURAN	50	J	19	MDL	190	PQL	ug/Kg	J	Z
FLUORANTHENE	150	J	19	MDL	190	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	36	J	19	MDL	190	PQL	ug/Kg	J	Z
PHENOL	20	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	170	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-149-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	170	J	17	MDL	350	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-150-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	48	J	18	MDL	350	PQL	ug/Kg	J	Z
FLUORANTHENE	19	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-153-SA5B-SS-0.0-0.5

Collected: 12/15/2010 2:08:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	19	J	19	MDL	190	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	51	J	19	MDL	380	PQL	ug/Kg	J	Z
Di-n-butylphthalate	23	J	19	MDL	190	PQL	ug/Kg	J	Z
FLUORANTHENE	20	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	22	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	31	J	17	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-203-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBAZOLE	25	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-204-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:51:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	19	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-257-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	30	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	26	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	37	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	26	J	19	MDL	190	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-257-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	40	J	19	MDL	370	PQL	ug/Kg	J	Z
CHRYSENE	51	J	19	MDL	190	PQL	ug/Kg	J	Z
FLUORANTHENE	50	J	19	MDL	190	PQL	ug/Kg	J	Z
PHENANTHRENE	51	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	63	J	19	MDL	190	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SED-018-SIV-SD-0.0-0.5

Collected: 12/15/2010 12:31:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.65	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.5	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SED-021-SIV-SD-0.0-0.5

Collected: 12/15/2010 9:21:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.62	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-131-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.95	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.84	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-132-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	22	J	19	MDL	47	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	24	J	19	MDL	47	PQL	ug/Kg	J	Z
CHRYSENE	29	J	9.4	MDL	47	PQL	ug/Kg	J	Z
FLUORANTHENE	22	J	19	MDL	47	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-132-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	25	J	19	MDL	47	PQL	ug/Kg	J	Z

Sample ID: SL-133-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	44	J	36	MDL	89	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	52	J	36	MDL	89	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	39	J	36	MDL	89	PQL	ug/Kg	J	Z

Sample ID: SL-134-SA5B-SS-0.0-0.5

Collected: 12/15/2010 10:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.0	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.1	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.81	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.80	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.7	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.97	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-135-SA5B-SS-0.0-0.5

Collected: 12/15/2010 11:13:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	1.9	J	1.9	MDL	9.3	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	4.6	J	3.7	MDL	9.3	PQL	ug/Kg	J	Z

Sample ID: SL-136-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	6.4	J	3.7	MDL	9.1	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	7.8	J	3.7	MDL	9.1	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	6.8	J	3.7	MDL	9.1	PQL	ug/Kg	J	Z
FLUORANTHENE	8.0	J	3.7	MDL	9.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-136-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	4.4	J	3.7	MDL	9.1	PQL	ug/Kg	J	Z
PYRENE	7.5	J	3.7	MDL	9.1	PQL	ug/Kg	J	Z

Sample ID: SL-149-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.93	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	0.91	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.6	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.3	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.94	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-150-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	4.5	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	1.8	J	1.8	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	6.6	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	7.1	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	4.3	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	5.1	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
PHENANTHRENE	7.5	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z

Sample ID: SL-153-SA5B-SS-0.0-0.5

Collected: 12/15/2010 2:08:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	5.0	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	6.4	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	6.1	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	4.4	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.2	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-155-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:41:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	1.3	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.2	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
FLUORENE	0.92	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	1.2	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-156-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:32:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.6	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-181-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:26:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.93	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.79	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.94	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.78	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.84	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-203-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.5	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-204-SA5B-SS-0.0-0.5

Collected: 12/15/2010 3:51:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	4.9	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
CHRYSENE	4.2	J	1.8	MDL	8.9	PQL	ug/Kg	J	Z
FLUORANTHENE	8.2	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
PHENANTHRENE	5.1	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-257-SA5B-SS-0.0-0.5

Collected: 12/15/2010 1:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	4.1	J	1.9	MDL	9.3	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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ADR version 1.3.0.71

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: PrepDE040_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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ADR version 1.3.0.71

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE040

Method Blank Outlier Report

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35408AB221227	12/29/2010 12:27:00 PM	CALCIUM PHOSPHORUS STRONTIUM TIN	13.6 mg/Kg 2.33 mg/Kg 0.0814 mg/Kg 1.32 mg/Kg	SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5
P35408AB221323	12/30/2010 1:23:00 PM	ALUMINUM IRON	15.3 mg/Kg 5.87 mg/Kg	SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SED-016-SIV-SD-0.0-0.5(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SED-018-SIV-SD-0.0-0.5(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SED-021-SIV-SD-0.0-0.5(RES)	TIN	2.17 mg/Kg	2.17U mg/Kg
SL-131-SA5B-SS-0.0-0.5(RES)	TIN	2.49 mg/Kg	2.49U mg/Kg
SL-132-SA5B-SS-0.0-0.5(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-133-SA5B-SS-0.0-0.5(RES)	TIN	2.24 mg/Kg	2.24U mg/Kg
SL-134-SA5B-SS-0.0-0.5(RES)	TIN	2.32 mg/Kg	2.32U mg/Kg
SL-135-SA5B-SS-0.0-0.5(RES)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-136-SA5B-SS-0.0-0.5(RES)	TIN	2.25 mg/Kg	2.25U mg/Kg
SL-149-SA5B-SS-0.0-0.5(RES)	TIN	2.46 mg/Kg	2.46U mg/Kg
SL-150-SA5B-SS-0.0-0.5(RES)	TIN	2.89 mg/Kg	2.89U mg/Kg
SL-153-SA5B-SS-0.0-0.5(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-155-SA5B-SS-0.0-0.5(RES)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-156-SA5B-SS-0.0-0.5(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SL-181-SA5B-SS-0.0-0.5(RES)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-203-SA5B-SS-0.0-0.5(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-204-SA5B-SS-0.0-0.5(RES)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-257-SA5B-SS-0.0-0.5(RES)	TIN	3.01 mg/Kg	3.01U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-132-SA5B-SS-0.0-0.5MSD (SL-132-SA5B-SS-0.0-0.5)	AROCOR 1016	-	172	29.00-146.00	-	AROCOR 1016, 1221, 1232	J (all detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-133-SA5B-SS-0.0-0.5MS SL-133-SA5B-SS-0.0-0.5MSD (SL-133-SA5B-SS-0.0-0.5)	DIELDRIN	583	621	19.00-154.00	-	DIELDRIN	No Qual Diluted Out
SL-133-SA5B-SS-0.0-0.5MS SL-133-SA5B-SS-0.0-0.5MSD (SL-133-SA5B-SS-0.0-0.5)	4,4'-DDD	0	0	16.00-163.00	-	4,4'-DDD	No Qual Diluted Out
	4,4'-DDE	-39337	-29706	18.00-161.00	53 (50.00)	4,4'-DDE	
	4,4'-DDT	-27483	-17011	10.00-176.00	-	4,4'-DDT	
	ALDRIN	0	0	16.00-126.00	-	ALDRIN	
	ALPHA-BHC	0	0	10.00-129.00	-	ALPHA-BHC	
	BETA-BHC	0	0	14.00-147.00	-	BETA-BHC	
	DELTA-BHC	0	0	23.00-140.00	-	DELTA-BHC	
	ENDOSULFAN I	0	0	16.00-137.00	-	ENDOSULFAN I	
	ENDOSULFAN II	0	0	28.00-154.00	-	ENDOSULFAN II	
	ENDOSULFAN SULFATE	0	398	21.00-160.00	200 (50.00)	ENDOSULFAN SULFATE	
	ENDRIN	0	0	11.00-149.00	-	ENDRIN	
	ENDRIN ALDEHYDE	0	576	10.00-148.00	200 (35.00)	ENDRIN ALDEHYDE	
	ENDRIN KETONE	0	0	22.00-165.00	-	ENDRIN KETONE	
	gamma-BHC (Lindane)	0	0	10.00-140.00	-	gamma-BHC (Lindane)	
	HEPTACHLOR	0	0	13.00-126.00	-	HEPTACHLOR	
	HEPTACHLOR EPOXIDE	0	0	13.00-157.00	-	HEPTACHLOR EPOXIDE	
	METHOXYCHLOR	227	0	32.00-147.00	200 (50.00)	METHOXYCHLOR	

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-132-SA5B-SS-0.0-0.5MS (SL-132-SA5B-SS-0.0-0.5)	2,4-DB	14	-	20.00-170.00	-	2,4-DB	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-133-SA5B-SS-0.0-0.5MS SL-133-SA5B-SS-0.0-0.5MSD (SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	ARSENIC CHROMIUM VANADIUM	- 143 147	141 134 -	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ARSENIC CHROMIUM VANADIUM	J(all detects)
SL-133-SA5B-SS-0.0-0.5MS SL-133-SA5B-SS-0.0-0.5MSD (SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	ANTIMONY LEAD ZINC	48 323 536	49 - -	75.00-125.00 75.00-125.00 75.00-125.00	- 44 (20.00) 36 (20.00)	ANTIMONY LEAD ZINC	J(all detects) UJ(all non-detects) Zn No Qual %R, >4x
SL-133-SA5B-SS-0.0-0.5MS (SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	BARIUM	212	-	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-132-SA5B-SS-0.0-0.5MS SL-132-SA5B-SS-0.0-0.5MSD (SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	ALUMINUM CALCIUM POTASSIUM TITANIUM	933 214 137 239	702 - - 141	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM CALCIUM POTASSIUM TITANIUM	J(all detects) Al, Ca, Ti No Qual, >4x
SL-132-SA5B-SS-0.0-0.5MS SL-132-SA5B-SS-0.0-0.5MSD (SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	IRON MAGNESIUM	889 199	-1018 -40	75.00-125.00 75.00-125.00	- -	IRON MAGNESIUM	No Qual, >4x
SL-132-SA5B-SS-0.0-0.5MS SL-132-SA5B-SS-0.0-0.5MSD (SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	MANGANESE PHOSPHORUS	193 250	- 57	75.00-125.00 75.00-125.00	21 (20.00) 37 (20.00)	MANGANESE PHOSPHORUS	J(all detects) UJ(all non-detects) Mn No Qual %R, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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ADR version 1.3.0.71

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-132-SA5B-SS-0.0-0.5MS SL-132-SA5B-SS-0.0-0.5MSD (SL-132-SA5B-SS-0.0-0.5)	2-NITROANILINE 3,5-Dimethylphenol BENZOIC ACID BIS(2-CHLOROETHOXY)METHA BIS(2-ETHYLHEXYL)PHTHALAT Butylbenzylphthalate Di-n-octylphthalate ISOPHORONE	- 146 178 - 132 - 146 -	132 150 175 108 138 142 158 105	67.00-125.00 70.00-130.00 10.00-173.00 75.00-104.00 63.00-122.00 73.00-134.00 58.00-126.00 73.00-102.00	- - - - - - - -	2-NITROANILINE 3,5-Dimethylphenol BENZOIC ACID BIS(2-CHLOROETHOXY)METH BIS(2-ETHYLHEXYL)PHTHALA Butylbenzylphthalate Di-n-octylphthalate ISOPHORONE	J(all detects)
SL-132-SA5B-SS-0.0-0.5MS SL-132-SA5B-SS-0.0-0.5MSD (SL-132-SA5B-SS-0.0-0.5)	2,4-DINITROPHENOL ANILINE BENZIDINE HEXACHLOROCYCLOPENTADI	0 0 0 0	0 - 0 0	20.00-143.00 35.00-95.00 35.00-141.00 10.00-153.00	- 200 (30.00) - -	2,4-DINITROPHENOL ANILINE BENZIDINE HEXACHLOROCYCLOPENTAD	J(all detects) R(all non-detects)

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-132-SA5B-SS-0.0-0.5MS SL-132-SA5B-SS-0.0-0.5MSD (SL-132-SA5B-SS-0.0-0.5)	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE ACENAPHTHENE ANTHRACENE BENZO(A)ANTHRACENE BENZO(B)FLUORANTHENE CHRYSENE FLUORANTHENE FLUORENE PHENANTHRENE PYRENE	177 136 127 138 206 188 316 924 125 515 668	145 - 109 - 176 - - 169 - 198 -	72.00-123.00 28.00-121.00 63.00-105.00 46.00-136.00 39.00-144.00 43.00-155.00 29.00-156.00 26.00-166.00 45.00-121.00 12.00-165.00 15.00-153.00	- - - - - - 69 (30.00) 125 (30.00) - 47 (30.00) 113 (30.00)	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE ACENAPHTHENE ANTHRACENE BENZO(A)ANTHRACENE BENZO(B)FLUORANTHENE CHRYSENE FLUORANTHENE FLUORENE PHENANTHRENE PYRENE	No Qual, Diluted Out
SL-132-SA5B-SS-0.0-0.5MS SL-132-SA5B-SS-0.0-0.5MSD (SL-132-SA5B-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT Butylbenzylphthalate Diethylphthalate Dimethylphthalate Di-n-butylphthalate Di-n-octylphthalate	0 0 0 0 0 0	0 0 0 0 0 0	39.00-167.00 73.00-140.00 87.00-131.00 74.00-118.00 78.00-160.00 40.00-192.00	- - - - - -	BIS(2-ETHYLHEXYL)PHTHALA Butylbenzylphthalate Diethylphthalate Dimethylphthalate Di-n-butylphthalate Di-n-octylphthalate	No Qual, Diluted Out

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-133-SA5B-SS-0.0-0.5DUP (SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	ANTIMONY CHROMIUM MOLYBDENUM NICKEL	74 50 23 28	20.00 20.00 20.00 20.00	J (all detects) UJ (all non-detects) Sb, Mo No Qual OK by difference

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-149-SA5B-SS-0.0-0.5DUP (SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	FLUORIDE	51	20.00	No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-204-SA5B-SS-0.0-0.5DUP (SED-016-SIV-SD-0.0-0.5 SED -018-SIV-SD-0.0-0.5 SED -021-SIV-SD-0.0-0.5 SL -131-SA5B-SS-0.0-0.5 SL -132-SA5B-SS-0.0-0.5 SL -133-SA5B-SS-0.0-0.5 SL -134-SA5B-SS-0.0-0.5 SL -135-SA5B-SS-0.0-0.5 SL -136-SA5B-SS-0.0-0.5 SL -149-SA5B-SS-0.0-0.5 SL -150-SA5B-SS-0.0-0.5 SL -153-SA5B-SS-0.0-0.5 SL -155-SA5B-SS-0.0-0.5 SL -156-SA5B-SS-0.0-0.5 SL -181-SA5B-SS-0.0-0.5 SL -203-SA5B-SS-0.0-0.5 SL -204-SA5B-SS-0.0-0.5 SL -257-SA5B-SS-0.0-0.5)	HEXAVALENT CHROMIUM	99	20.00	No Qual OK by difference

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-132-SA5B-SS-0.0-0.5DUP (SED-016-SIV-SD-0.0-0.5 SED -018-SIV-SD-0.0-0.5 SED -021-SIV-SD-0.0-0.5 SL -131-SA5B-SS-0.0-0.5 SL -132-SA5B-SS-0.0-0.5 SL -133-SA5B-SS-0.0-0.5 SL -134-SA5B-SS-0.0-0.5 SL -135-SA5B-SS-0.0-0.5 SL -153-SA5B-SS-0.0-0.5 SL -155-SA5B-SS-0.0-0.5)	FLUORIDE	200	20.00	No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-132-SA5B-SS-0.0-0.5DUP (SED-016-SIV-SD-0.0-0.5 SED -018-SIV-SD-0.0-0.5 SED -021-SIV-SD-0.0-0.5 SL -131-SA5B-SS-0.0-0.5 SL -132-SA5B-SS-0.0-0.5 SL -133-SA5B-SS-0.0-0.5 SL -134-SA5B-SS-0.0-0.5 SL -135-SA5B-SS-0.0-0.5 SL -136-SA5B-SS-0.0-0.5 SL -149-SA5B-SS-0.0-0.5 SL -150-SA5B-SS-0.0-0.5 SL -153-SA5B-SS-0.0-0.5 SL -155-SA5B-SS-0.0-0.5 SL -156-SA5B-SS-0.0-0.5 SL -181-SA5B-SS-0.0-0.5 SL -203-SA5B-SS-0.0-0.5 SL -204-SA5B-SS-0.0-0.5 SL -257-SA5B-SS-0.0-0.5)	IRON LITHIUM MANGANESE STRONTIUM	31 27 44 31	20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects)

Method: 7471A

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-132-SA5B-SS-0.0-0.5DUP (SED-016-SIV-SD-0.0-0.5 SED -018-SIV-SD-0.0-0.5 SED -021-SIV-SD-0.0-0.5 SL -131-SA5B-SS-0.0-0.5 SL -132-SA5B-SS-0.0-0.5 SL -133-SA5B-SS-0.0-0.5 SL -134-SA5B-SS-0.0-0.5 SL -135-SA5B-SS-0.0-0.5 SL -136-SA5B-SS-0.0-0.5 SL -149-SA5B-SS-0.0-0.5 SL -150-SA5B-SS-0.0-0.5 SL -153-SA5B-SS-0.0-0.5 SL -155-SA5B-SS-0.0-0.5 SL -156-SA5B-SS-0.0-0.5 SL -181-SA5B-SS-0.0-0.5 SL -203-SA5B-SS-0.0-0.5 SL -204-SA5B-SS-0.0-0.5 SL -257-SA5B-SS-0.0-0.5)	MERCURY	200	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03558AQ240137A (SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	ENDOSULFAN II	60	-	63.00-127.00	-	ENDOSULFAN II	J (all detects) UJ (all non-detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03614AQ241108A (SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	DICHLOROPROP	157	-	60.00-141.00	-	DICHLOROPROP	J(all detects)
P03614AQ241108A (SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	DINOSEB	7	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
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Surrogate Outlier Report

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-018-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	217	20.00-120.00	All Target Analytes	J (all detects)
SED-021-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SL-134-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	159	20.00-120.00	All Target Analytes	J(all detects)
SL-135-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	No Qual Diluted Out
SL-149-SA5B-SS-0.0-0.5	TETRACHLORO-M-XYLENE	49	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-203-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SL-203-SA5B-SS-0.0-0.5	TETRACHLORO-M-XYLENE	41	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-204-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	No Qual Diluted Out

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-133-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	21 17	45.00-120.00 53.00-139.00	All Target Analytes	No Qual Diluted Out
SL-134-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	192 161	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-135-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	145	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-149-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	121	45.00-120.00	All Target Analytes	J(all detects)
SL-153-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	188	45.00-120.00	All Target Analytes	J(all detects)
SL-155-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	143 148	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-133-SA5B-SS-0.0-0.5	FLUORIDE	J	1.0	1.1	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-016-SIV-SD-0.0-0.5	BORON	J	4.30	5.58	PQL	mg/Kg	J (all detects)
	SODIUM	J	89.4	112	PQL	mg/Kg	
	TIN	J	2.59	11.2	PQL	mg/Kg	
	Zirconium	J	1.30	5.58	PQL	mg/Kg	
SED-018-SIV-SD-0.0-0.5	SODIUM	J	71.2	110	PQL	mg/Kg	J (all detects)
	TIN	J	2.55	11.0	PQL	mg/Kg	
	Zirconium	J	1.38	5.49	PQL	mg/Kg	
SED-021-SIV-SD-0.0-0.5	BORON	J	3.56	5.17	PQL	mg/Kg	J (all detects)
	SODIUM	J	63.5	103	PQL	mg/Kg	
	TIN	J	2.17	10.3	PQL	mg/Kg	
SL-131-SA5B-SS-0.0-0.5	TIN	J	2.49	10.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.08	5.00	PQL	mg/Kg	
SL-132-SA5B-SS-0.0-0.5	TIN	J	2.60	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.36	5.47	PQL	mg/Kg	
SL-133-SA5B-SS-0.0-0.5	TIN	J	2.24	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.92	5.31	PQL	mg/Kg	
SL-134-SA5B-SS-0.0-0.5	BORON	J	4.96	5.15	PQL	mg/Kg	J (all detects)
	TIN	J	2.32	10.3	PQL	mg/Kg	
	Zirconium	J	1.38	5.15	PQL	mg/Kg	
SL-135-SA5B-SS-0.0-0.5	TIN	J	2.56	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.84	5.39	PQL	mg/Kg	
SL-136-SA5B-SS-0.0-0.5	BORON	J	4.64	5.48	PQL	mg/Kg	J (all detects)
	TIN	J	2.25	11.0	PQL	mg/Kg	
	Zirconium	J	1.39	5.48	PQL	mg/Kg	
SL-149-SA5B-SS-0.0-0.5	TIN	J	2.46	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.39	5.17	PQL	mg/Kg	
SL-150-SA5B-SS-0.0-0.5	TIN	J	2.89	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.993	5.16	PQL	mg/Kg	
SL-153-SA5B-SS-0.0-0.5	TIN	J	2.54	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.00	5.54	PQL	mg/Kg	
SL-155-SA5B-SS-0.0-0.5	TIN	J	2.58	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.99	5.17	PQL	mg/Kg	
SL-156-SA5B-SS-0.0-0.5	TIN	J	2.51	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.60	5.32	PQL	mg/Kg	
SL-181-SA5B-SS-0.0-0.5	SODIUM	J	102	107	PQL	mg/Kg	J (all detects)
	TIN	J	2.56	10.7	PQL	mg/Kg	
	Zirconium	J	2.27	5.33	PQL	mg/Kg	
SL-203-SA5B-SS-0.0-0.5	TIN	J	2.62	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.46	5.19	PQL	mg/Kg	
SL-204-SA5B-SS-0.0-0.5	BORON	J	4.93	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	2.56	10.6	PQL	mg/Kg	
	Zirconium	J	3.02	5.31	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-257-SA5B-SS-0.0-0.5	BORON	J	5.19	5.39	PQL	mg/Kg	J (all detects)
	SODIUM	J	89.8	108	PQL	mg/Kg	
	TIN	J	3.01	10.8	PQL	mg/Kg	
	Zirconium	J	1.26	5.39	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-016-SIV-SD-0.0-0.5	SELENIUM	J	0.0957	0.438	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0265	0.109	PQL	mg/Kg	
SED-018-SIV-SD-0.0-0.5	SELENIUM	J	0.155	0.440	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0255	0.110	PQL	mg/Kg	
SED-021-SIV-SD-0.0-0.5	CADMIUM	J	0.0800	0.101	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0924	0.405	PQL	mg/Kg	
	SILVER	J	0.0170	0.101	PQL	mg/Kg	
SL-131-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0800	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.128	0.420	PQL	mg/Kg	
	SILVER	J	0.0671	0.105	PQL	mg/Kg	
SL-132-SA5B-SS-0.0-0.5	SELENIUM	J	0.130	0.442	PQL	mg/Kg	J (all detects)
	SILVER	J	0.109	0.110	PQL	mg/Kg	
SL-133-SA5B-SS-0.0-0.5	ANTIMONY	J	0.141	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.125	0.421	PQL	mg/Kg	
	SILVER	J	0.0610	0.105	PQL	mg/Kg	
SL-134-SA5B-SS-0.0-0.5	ANTIMONY	J	0.118	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.101	0.408	PQL	mg/Kg	
SL-135-SA5B-SS-0.0-0.5	ANTIMONY	J	0.207	0.220	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0906	0.440	PQL	mg/Kg	
SL-136-SA5B-SS-0.0-0.5	ANTIMONY	J	0.150	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.104	0.426	PQL	mg/Kg	
SL-149-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0979	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.130	0.418	PQL	mg/Kg	
	SILVER	J	0.0767	0.104	PQL	mg/Kg	
SL-150-SA5B-SS-0.0-0.5	ANTIMONY	J	0.139	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.143	0.421	PQL	mg/Kg	
	SILVER	J	0.0714	0.105	PQL	mg/Kg	
SL-153-SA5B-SS-0.0-0.5	ANTIMONY	J	0.143	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.117	0.452	PQL	mg/Kg	
	SILVER	J	0.108	0.113	PQL	mg/Kg	
SL-155-SA5B-SS-0.0-0.5	ANTIMONY	J	0.148	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0925	0.410	PQL	mg/Kg	
	SILVER	J	0.0459	0.102	PQL	mg/Kg	
SL-156-SA5B-SS-0.0-0.5	ANTIMONY	J	0.115	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0985	0.425	PQL	mg/Kg	
SL-181-SA5B-SS-0.0-0.5	ANTIMONY	J	0.175	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.147	0.418	PQL	mg/Kg	
	SILVER	J	0.0727	0.105	PQL	mg/Kg	
SL-203-SA5B-SS-0.0-0.5	ANTIMONY	J	0.134	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.112	0.427	PQL	mg/Kg	
	SILVER	J	0.0325	0.107	PQL	mg/Kg	

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Reporting Limit Outliers

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-204-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0824	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.146	0.412	PQL	mg/Kg	
	SILVER	J	0.0326	0.103	PQL	mg/Kg	
SL-257-SA5B-SS-0.0-0.5	ANTIMONY	J	0.132	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0807	0.436	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-016-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.81	1.1	PQL	mg/Kg	J (all detects)
SED-018-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.34	1.1	PQL	mg/Kg	J (all detects)
SL-132-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.73	1.1	PQL	mg/Kg	J (all detects)
SL-134-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-149-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.59	1.0	PQL	mg/Kg	J (all detects)
SL-150-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.82	1.1	PQL	mg/Kg	J (all detects)
SL-155-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.47	1.0	PQL	mg/Kg	J (all detects)
SL-181-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.63	1.1	PQL	mg/Kg	J (all detects)
SL-203-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)
SL-204-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.28	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-016-SIV-SD-0.0-0.5	MERCURY	J	0.0469	0.110	PQL	mg/Kg	J (all detects)
SED-018-SIV-SD-0.0-0.5	MERCURY	J	0.0097	0.108	PQL	mg/Kg	J (all detects)
SL-131-SA5B-SS-0.0-0.5	MERCURY	J	0.0421	0.0984	PQL	mg/Kg	J (all detects)
SL-134-SA5B-SS-0.0-0.5	MERCURY	J	0.0181	0.0999	PQL	mg/Kg	J (all detects)
SL-136-SA5B-SS-0.0-0.5	MERCURY	J	0.0387	0.108	PQL	mg/Kg	J (all detects)
SL-149-SA5B-SS-0.0-0.5	MERCURY	J	0.0199	0.101	PQL	mg/Kg	J (all detects)
SL-150-SA5B-SS-0.0-0.5	MERCURY	J	0.0135	0.104	PQL	mg/Kg	J (all detects)
SL-153-SA5B-SS-0.0-0.5	MERCURY	J	0.0513	0.111	PQL	mg/Kg	J (all detects)
SL-155-SA5B-SS-0.0-0.5	MERCURY	J	0.0084	0.103	PQL	mg/Kg	J (all detects)
SL-156-SA5B-SS-0.0-0.5	MERCURY	J	0.0880	0.103	PQL	mg/Kg	J (all detects)
SL-181-SA5B-SS-0.0-0.5	MERCURY	J	0.0128	0.107	PQL	mg/Kg	J (all detects)
SL-203-SA5B-SS-0.0-0.5	MERCURY	J	0.0451	0.104	PQL	mg/Kg	J (all detects)
SL-204-SA5B-SS-0.0-0.5	MERCURY	J	0.0060	0.0994	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-257-SA5B-SS-0.0-0.5	MERCURY	J	0.0062	0.107	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-018-SIV-SD-0.0-0.5	DELTA-BHC	J	0.078	0.18	PQL	ug/Kg	J (all detects)
	HEPTACHLOR	J	0.12	0.18	PQL	ug/Kg	
SED-021-SIV-SD-0.0-0.5	4,4'-DDE	J	0.18	0.36	PQL	ug/Kg	J (all detects)
SL-132-SA5B-SS-0.0-0.5	HEPTACHLOR	J	0.36	0.86	PQL	ug/Kg	J (all detects)
SL-134-SA5B-SS-0.0-0.5	ALPHA-BHC	J	0.073	0.17	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.054	0.17	PQL	ug/Kg	
SL-135-SA5B-SS-0.0-0.5	gamma-BHC (Lindane)	J	0.87	1.8	PQL	ug/Kg	J (all detects)
SL-150-SA5B-SS-0.0-0.5	BETA-BHC	J	0.078	0.17	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.059	0.17	PQL	ug/Kg	
SL-155-SA5B-SS-0.0-0.5	ENDRIN	J	0.10	0.36	PQL	ug/Kg	J (all detects)
SL-181-SA5B-SS-0.0-0.5	DELTA-BHC	J	0.045	0.18	PQL	ug/Kg	J (all detects)
SL-257-SA5B-SS-0.0-0.5	ALPHA-BHC	J	0.056	0.18	PQL	ug/Kg	J (all detects)
	HEPTACHLOR	J	0.17	0.18	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-018-SIV-SD-0.0-0.5	AROCLOR 1254	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.1	1.9	PQL	ug/Kg	
SL-131-SA5B-SS-0.0-0.5	Aroclor 5460	J	1.3	3.5	PQL	ug/Kg	J (all detects)
SL-135-SA5B-SS-0.0-0.5	AROCLOR 1260	J	9.7	19	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	17	37	PQL	ug/Kg	
SL-203-SA5B-SS-0.0-0.5	Aroclor 5460	J	2.9	3.6	PQL	ug/Kg	J (all detects)
SL-204-SA5B-SS-0.0-0.5	AROCLOR 1248	J	1.1	1.8	PQL	ug/Kg	J (all detects)
SL-257-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.67	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	3.0	3.7	PQL	ug/Kg	

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-018-SIV-SD-0.0-0.5	MCPP	J	200	280	PQL	ug/Kg	J (all detects)
SL-132-SA5B-SS-0.0-0.5	MCPA	J	180	280	PQL	ug/Kg	J (all detects)
SL-134-SA5B-SS-0.0-0.5	MCPA	J	170	260	PQL	ug/Kg	J (all detects)
	MCPP	J	200	260	PQL	ug/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-135-SA5B-SS-0.0-0.5	DICAMBA	J	0.60	1.3	PQL	ug/Kg	J (all detects)
SL-136-SA5B-SS-0.0-0.5	2,4,5-T	J	0.14	0.19	PQL	ug/Kg	J (all detects)
	MCP	J	110	270	PQL	ug/Kg	
SL-155-SA5B-SS-0.0-0.5	2,4,5-T	J	0.15	0.18	PQL	ug/Kg	J (all detects)
	DICAMBA	J	0.48	1.3	PQL	ug/Kg	
	DICHLOROPROP	J	1.2	1.8	PQL	ug/Kg	
SL-156-SA5B-SS-0.0-0.5	2,4-D	J	2.2	3.9	PQL	ug/Kg	J (all detects)
	DICAMBA	J	0.80	1.3	PQL	ug/Kg	
	DICHLOROPROP	J	0.97	1.8	PQL	ug/Kg	
SL-203-SA5B-SS-0.0-0.5	2,4-D	J	3.7	3.9	PQL	ug/Kg	J (all detects)
	DICAMBA	J	0.47	1.3	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-016-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	28	370	PQL	ug/Kg	J (all detects)
SED-018-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	370	PQL	ug/Kg	J (all detects)
SED-021-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	350	PQL	ug/Kg	J (all detects)
SL-131-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	35	350	PQL	ug/Kg	J (all detects)
SL-134-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	350	PQL	ug/Kg	J (all detects)
SL-135-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	71	190	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	67	190	PQL	ug/Kg	
	ANTHRACENE	J	21	190	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	85	190	PQL	ug/Kg	
	BENZO(A)PYRENE	J	73	190	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	92	190	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	46	190	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	44	190	PQL	ug/Kg	
	BENZOIC ACID	J	490	560	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	300	370	PQL	ug/Kg	
	CHRYSENE	J	110	190	PQL	ug/Kg	
	DIBENZOFURAN	J	50	190	PQL	ug/Kg	
	FLUORANTHENE	J	150	190	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	36	190	PQL	ug/Kg	
	PHENOL	J	20	190	PQL	ug/Kg	
	PYRENE	J	170	190	PQL	ug/Kg	
SL-149-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	170	350	PQL	ug/Kg	J (all detects)
SL-150-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	48	350	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	19	180	PQL	ug/Kg	
	PYRENE	J	22	180	PQL	ug/Kg	
SL-153-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	19	190	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	51	380	PQL	ug/Kg	
	Di-n-butylphthalate	J	23	190	PQL	ug/Kg	
	FLUORANTHENE	J	20	190	PQL	ug/Kg	
	PYRENE	J	22	190	PQL	ug/Kg	
SL-155-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	31	350	PQL	ug/Kg	J (all detects)
SL-203-SA5B-SS-0.0-0.5	CARBAZOLE	J	25	180	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-204-SA5B-SS-0.0-0.5	PYRENE	J	19	180	PQL	ug/Kg	J (all detects)
SL-257-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	30	190	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	26	190	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	37	190	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	26	190	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	40	370	PQL	ug/Kg	
	CHRYSENE	J	51	190	PQL	ug/Kg	
	FLUORANTHENE	J	50	190	PQL	ug/Kg	
	PHENANTHRENE	J	51	190	PQL	ug/Kg	
	PYRENE	J	63	190	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-018-SIV-SD-0.0-0.5	ANTHRACENE	J	0.65	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.2	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.8	PQL	ug/Kg	
SED-021-SIV-SD-0.0-0.5	CHRYSENE	J	0.62	1.8	PQL	ug/Kg	J (all detects)
SL-131-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.95	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.84	1.8	PQL	ug/Kg	
SL-132-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	22	47	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	24	47	PQL	ug/Kg	
	CHRYSENE	J	29	47	PQL	ug/Kg	
	FLUORANTHENE	J	22	47	PQL	ug/Kg	
	PYRENE	J	25	47	PQL	ug/Kg	
SL-133-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	44	89	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	52	89	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	39	89	PQL	ug/Kg	
SL-134-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	0.81	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.80	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.97	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.7	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	PYRENE	J	1.2	1.8	PQL	ug/Kg	
SL-135-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	1.9	9.3	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	4.6	9.3	PQL	ug/Kg	
SL-136-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	6.4	9.1	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	7.8	9.1	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	6.8	9.1	PQL	ug/Kg	
	FLUORANTHENE	J	8.0	9.1	PQL	ug/Kg	
	PHENANTHRENE	J	4.4	9.1	PQL	ug/Kg	
	PYRENE	J	7.5	9.1	PQL	ug/Kg	
SL-149-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.93	1.7	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.91	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.6	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.94	1.7	PQL	ug/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE040

Laboratory: LL

EDD Filename: DE040_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-150-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	4.5	8.8	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	1.8	8.8	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	6.6	8.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	7.1	8.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.3	8.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	5.1	8.8	PQL	ug/Kg	
SL-153-SA5B-SS-0.0-0.5	PHENANTHRENE	J	7.5	8.8	PQL	ug/Kg	J (all detects)
	1-METHYLNAPHTHALENE	J	5.0	9.6	PQL	ug/Kg	
	2-METHYLNAPHTHALENE	J	6.4	9.6	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	6.1	9.6	PQL	ug/Kg	
SL-155-SA5B-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	4.4	9.6	PQL	ug/Kg	J (all detects)
	1-METHYLNAPHTHALENE	J	1.2	1.7	PQL	ug/Kg	
	2-METHYLNAPHTHALENE	J	1.3	1.7	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.2	1.7	PQL	ug/Kg	
	FLUORENE	J	0.92	1.7	PQL	ug/Kg	
SL-156-SA5B-SS-0.0-0.5	NAPHTHALENE	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.6	19	PQL	ug/Kg	
SL-181-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.93	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.79	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.94	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.78	1.8	PQL	ug/Kg	
	PYRENE	J	0.84	1.8	PQL	ug/Kg	
SL-203-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	J (all detects)
SL-204-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	4.9	8.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	4.2	8.9	PQL	ug/Kg	
	FLUORANTHENE	J	8.2	8.9	PQL	ug/Kg	
	PHENANTHRENE	J	5.1	8.9	PQL	ug/Kg	
SL-257-SA5B-SS-0.0-0.5	ANTHRACENE	J	4.1	9.3	PQL	ug/Kg	J (all detects)

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	ICP/MS hits but no data qualified
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MSD (Al, Ga, Fe, Mg, Mn, Ti, Ba, Zn > 4x)
VII.	Duplicate Sample Analysis	N	DQ (Hg, Sb, Mo < 5x)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/U/A (A)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	—	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-132-SA5B-SS-0.0-0.5	11	SL-149-SA5B-SS-0.0-0.5	21	(#1) DUP	31	
2	SL-133-SA5B-SS-0.0-0.5	12	SL-156-SA5B-SS-0.0-0.5	22	(#2) MS	32	
3	SL-131-SA5B-SS-0.0-0.5	13	SL-150-SA5B-SS-0.0-0.5	23	MSD	33	
4	SL-135-SA5B-SS-0.0-0.5	14	SL-181-SA5B-SS-0.0-0.5	24	DUP	34	
5	SL-134-SA5B-SS-0.0-0.5	15	SL-136-SA5B-SS-0.0-0.5	25		35	
6	SED-021-SIV-SD-0.0-0.5	16	SL-203-SA5B-SS-0.0-0.5	26		36	
7	SED-018-SIV-SD-0.0-0.5	17	SL-257-SA5B-SS-0.0-0.5	27		37	
8	SED-016-SIV-SD-0.0-0.5	18	SL-204-SA5B-SS-0.0-0.5	28		38	
9	SL-153-SA5B-SS-0.0-0.5	19	(#1) MS	29		39	
10	SL-155-SA5B-SS-0.0-0.5	20	MSD	30		40	

Notes: _____

All circled elements are applicable to each sample.

[illegible]

Comments: Mercury by CVAA if performed



QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: DE040

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6166075BKG

Serial Dilution Lab Sample ID: 6166075L

Batch ID(s): P35426A

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Antimony	121	0.6686	B	1.5000	U	100		MS
Arsenic	75	13.3800		13.8350		3		MS
Barium	137	276.7000		328.7000		19	E	MS
Beryllium	9	1.6640		2.0970	B	26		MS
Cadmium	111	0.6644		0.9000	U	100		MS
Chromium	52	66.8100		78.7500		18	E	MS
Cobalt	59	17.8700		23.2700		30	E	MS
Copper	63	31.4400		40.6050		29		MS
Lead	208	47.4200		55.3000		17	E	MS
Molybdenum	98	1.9930		2.1420	B	7		MS
Nickel	60	55.1300		66.1000		20	E	MS
Selenium	78	0.5951	B	1.0000	U	100		MS
Silver	107	0.2900	B	0.3000	U	100		MS
Thallium	203	0.7003		0.7500	U	100		MS
Vanadium	51	142.9000		190.6000		33	E	MS
Zinc	66	434.8000		527.0000		21	E	MS

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:

P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:

DE040 4354

U= Below MDL

B= Below LOQ

FLAGS:

E = Matrix Effects exist as proven by
Serial Dilution or Spiked Dilution



QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: DE040

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6166074BKG

Serial Dilution Lab Sample ID: 6166074L

Batch ID(s): P35408A

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		127688.4100		122024.8000		4		P
Boron		63.5600		105.9000	B	67		P
Calcium		27935.3000		31169.2000		12	E	P
Iron		184659.3800		178491.0500		3		P
Lithium		141.8300		153.3500		8		P
Magnesium		33734.3800		37544.2000		11	E	P
Manganese		2004.3800		2068.7000		3		P
Phosphorus		3645.8900		3572.4500		2		P
Potassium		23040.9300		22485.4000		2		P
Sodium		1181.1500		1865.0000	U	100		P
Strontium		244.3500		237.4500		3		P
Tin		23.8100	B	50.0000	U	100		P
Titanium		10994.1300		11056.6500		1		P
Zirconium		21.5400	B	42.0000	U	100		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:

P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:

DE040 4358

U= Below MDL

B= Below LOQ

FLAGS:

E = Matrix Effects exist as proven by
Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE041

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	TB-121510	6166200	TB	5030B	8015M	III
15-Dec-2010	TB-121510	6166200	TB	5030B	8260B	III
15-Dec-2010	TB-121510	6166200	TB	5030B	8260B SIM	III
15-Dec-2010	SL-264-SA5B-SS-0.0-0.5	6166197	N	3050B	6010B	III
15-Dec-2010	SL-264-SA5B-SS-0.0-0.5	6166197	N	3050B	6020	III
15-Dec-2010	SL-264-SA5B-SS-0.0-0.5	6166197	N	3060A	7199	III
15-Dec-2010	SL-264-SA5B-SS-0.0-0.5	6166197	N	3550B	8081A	III
15-Dec-2010	SL-264-SA5B-SS-0.0-0.5	6166197	N	3550B	8082	III
15-Dec-2010	SL-264-SA5B-SS-0.0-0.5	6166197	N	3550B	8151A	III
15-Dec-2010	SL-264-SA5B-SS-0.0-0.5	6166197	N	3550B	8270C	III
15-Dec-2010	SL-264-SA5B-SS-0.0-0.5	6166197	N	3550B	8270C SIM	III
15-Dec-2010	SL-264-SA5B-SS-0.0-0.5	6166197	N	Gen Prep	300.0	III
15-Dec-2010	SL-264-SA5B-SS-0.0-0.5	6166197	N	Gen Prep	9045M	III
15-Dec-2010	SL-264-SA5B-SS-0.0-0.5	6166197	N	METHOD	314.0	III
15-Dec-2010	SL-264-SA5B-SS-0.0-0.5	6166197	N	METHOD	7471A	III
15-Dec-2010	SL-263-SA5B-SS-0.0-0.5	6166196	N	3050B	6010B	III
15-Dec-2010	SL-263-SA5B-SS-0.0-0.5	6166196	N	3050B	6020	III
15-Dec-2010	SL-263-SA5B-SS-0.0-0.5	6166196	N	3060A	7199	III
15-Dec-2010	SL-263-SA5B-SS-0.0-0.5	6166196	N	3550B	8081A	III
15-Dec-2010	SL-263-SA5B-SS-0.0-0.5	6166196	N	3550B	8082	III
15-Dec-2010	SL-263-SA5B-SS-0.0-0.5	6166196	N	3550B	8151A	III
15-Dec-2010	SL-263-SA5B-SS-0.0-0.5	6166196	N	3550B	8270C	III
15-Dec-2010	SL-263-SA5B-SS-0.0-0.5	6166196	N	3550B	8270C SIM	III
15-Dec-2010	SL-263-SA5B-SS-0.0-0.5	6166196	N	Gen Prep	300.0	III
15-Dec-2010	SL-263-SA5B-SS-0.0-0.5	6166196	N	Gen Prep	9045M	III
15-Dec-2010	SL-263-SA5B-SS-0.0-0.5	6166196	N	METHOD	314.0	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-263-SA5B-SS-0.0-0.5	6166196	N	METHOD	7471A	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5	6166190	N	3050B	6010B	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5	6166190	N	3050B	6020	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5	6166190	N	3060A	7199	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5	6166190	N	3550B	8081A	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5	6166190	N	3550B	8082	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5	6166190	N	3550B	8151A	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5	6166190	N	3550B	8270C	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5	6166190	N	3550B	8270C SIM	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5	6166190	N	Gen Prep	300.0	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5	6166190	N	Gen Prep	9045M	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5	6166190	N	METHOD	314.0	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5	6166190	N	METHOD	7471A	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MS	6166191	MS	3050B	6010B	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MS	6166191	MS	3050B	6020	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MS	6166191	MS	3060A	7199	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MS	6166191	MS	3550B	8081A	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MS	6166191	MS	3550B	8082	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MS	6166191	MS	3550B	8151A	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MS	6166191	MS	3550B	8270C	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MS	6166191	MS	3550B	8270C SIM	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MS	6166191	MS	Gen Prep	300.0	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MS	6166191	MS	METHOD	314.0	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MS	6166191	MS	METHOD	7471A	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MSD	6166192	MSD	3050B	6010B	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MSD	6166192	MSD	3050B	6020	III

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MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MSD	6166192	MSD	3550B	8081A	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MSD	6166192	MSD	3550B	8082	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MSD	6166192	MSD	3550B	8151A	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MSD	6166192	MSD	3550B	8270C	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MSD	6166192	MSD	3550B	8270C SIM	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MSD	6166192	MSD	METHOD	7471A	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5DUP	6166193	DUP	3050B	6010B	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5DUP	6166193	DUP	3050B	6020	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5DUP	6166193	DUP	3060A	7199	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5DUP	6166193	DUP	Gen Prep	300.0	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5DUP	6166193	DUP	Gen Prep	9045M	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5DUP	6166193	DUP	METHOD	314.0	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5DUP	6166193	DUP	METHOD	7471A	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5DUP	P166190D272205A	DUP	Gen Prep	300.0	III
15-Dec-2010	SL-262-SA5B-SS-0.0-0.5MS	P166190R272220A	MS	Gen Prep	300.0	III
15-Dec-2010	DUP06-SA5B-QC-121510	6166195	FD	3050B	6010B	III
15-Dec-2010	DUP06-SA5B-QC-121510	6166195	FD	3050B	6020	III
15-Dec-2010	DUP06-SA5B-QC-121510	6166195	FD	3060A	7199	III
15-Dec-2010	DUP06-SA5B-QC-121510	6166195	FD	3550B	8081A	III
15-Dec-2010	DUP06-SA5B-QC-121510	6166195	FD	3550B	8082	III
15-Dec-2010	DUP06-SA5B-QC-121510	6166195	FD	3550B	8151A	III
15-Dec-2010	DUP06-SA5B-QC-121510	6166195	FD	3550B	8270C	III
15-Dec-2010	DUP06-SA5B-QC-121510	6166195	FD	3550B	8270C SIM	III
15-Dec-2010	DUP06-SA5B-QC-121510	6166195	FD	Gen Prep	300.0	III
15-Dec-2010	DUP06-SA5B-QC-121510	6166195	FD	Gen Prep	9045M	III
15-Dec-2010	DUP06-SA5B-QC-121510	6166195	FD	METHOD	314.0	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	DUP06-SA5B-QC-121510	6166195	FD	METHOD	7471A	III
15-Dec-2010	SL-303-SA5B-SS-0.0-0.5	6166189	N	3050B	6010B	III
15-Dec-2010	SL-303-SA5B-SS-0.0-0.5	6166189	N	3050B	6020	III
15-Dec-2010	SL-303-SA5B-SS-0.0-0.5	6166189	N	3060A	7199	III
15-Dec-2010	SL-303-SA5B-SS-0.0-0.5	6166189	N	3550B	8081A	III
15-Dec-2010	SL-303-SA5B-SS-0.0-0.5	6166189	N	3550B	8082	III
15-Dec-2010	SL-303-SA5B-SS-0.0-0.5	6166189	N	3550B	8151A	III
15-Dec-2010	SL-303-SA5B-SS-0.0-0.5	6166189	N	3550B	8270C	III
15-Dec-2010	SL-303-SA5B-SS-0.0-0.5	6166189	N	3550B	8270C SIM	III
15-Dec-2010	SL-303-SA5B-SS-0.0-0.5	6166189	N	Gen Prep	300.0	III
15-Dec-2010	SL-303-SA5B-SS-0.0-0.5	6166189	N	Gen Prep	9045M	III
15-Dec-2010	SL-303-SA5B-SS-0.0-0.5	6166189	N	METHOD	314.0	III
15-Dec-2010	SL-303-SA5B-SS-0.0-0.5	6166189	N	METHOD	7471A	III
15-Dec-2010	SL-302-SA5B-SS-0.0-0.5	6166194	N	3050B	6010B	III
15-Dec-2010	SL-302-SA5B-SS-0.0-0.5	6166194	N	3050B	6020	III
15-Dec-2010	SL-302-SA5B-SS-0.0-0.5	6166194	N	3060A	7199	III
15-Dec-2010	SL-302-SA5B-SS-0.0-0.5	6166194	N	3550B	8081A	III
15-Dec-2010	SL-302-SA5B-SS-0.0-0.5	6166194	N	3550B	8082	III
15-Dec-2010	SL-302-SA5B-SS-0.0-0.5	6166194	N	3550B	8151A	III
15-Dec-2010	SL-302-SA5B-SS-0.0-0.5	6166194	N	3550B	8270C	III
15-Dec-2010	SL-302-SA5B-SS-0.0-0.5	6166194	N	3550B	8270C SIM	III
15-Dec-2010	SL-302-SA5B-SS-0.0-0.5	6166194	N	Gen Prep	300.0	III
15-Dec-2010	SL-302-SA5B-SS-0.0-0.5	6166194	N	Gen Prep	9045M	III
15-Dec-2010	SL-302-SA5B-SS-0.0-0.5	6166194	N	METHOD	314.0	III
15-Dec-2010	SL-302-SA5B-SS-0.0-0.5	6166194	N	METHOD	7471A	III
15-Dec-2010	SL-302-SA5B-SS-0.0-0.5DUP	P166194D291430A	DUP	Gen Prep	9045M	III

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FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	3050B	6010B	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	3050B	6020	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	3060A	7199	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	3546	1625C	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	3550B	8015B	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	3550B	8015M	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	3550B	8081A	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	3550B	8082	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	3550B	8151A	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	3550B	8270C	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	3550B	8270C SIM	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	5035	8015M	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	5035	8260B	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	5035	8260B SIM	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	8330	8330A	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	Gen Prep	300.0	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	Gen Prep	9045M	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	METHOD	314.0	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	METHOD	7471A	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	METHOD	8015B	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	METHOD	8015M	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	METHOD	8315A	III
15-Dec-2010	SL-027-SA5B-SB-4.0-5.0	6166198	N	METHOD	9012B	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	3050B	6010B	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	3050B	6020	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	3060A	7199	III

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TB = Trip Blank
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MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	3546	1625C	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	3550B	8015B	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	3550B	8015M	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	3550B	8081A	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	3550B	8082	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	3550B	8151A	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	3550B	8270C	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	3550B	8270C SIM	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	5035	8015M	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	5035	8260B	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	5035	8260B SIM	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	8330	8330A	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	Gen Prep	300.0	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	Gen Prep	9045M	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	METHOD	314.0	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	METHOD	7471A	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	METHOD	8015B	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	METHOD	8015M	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	METHOD	8315A	III
15-Dec-2010	SL-027-SA5B-SB-8.0-9.0	6166199	N	METHOD	9012B	III
15-Dec-2010	EB03-SA5B-121510	6166201	EB	3005A	6010B	III
15-Dec-2010	EB03-SA5B-121510	6166201	EB	3020A	6020	III
15-Dec-2010	EB03-SA5B-121510	6166201	EB	3510C	8081A	III
15-Dec-2010	EB03-SA5B-121510	6166201	EB	3510C	8082	III
15-Dec-2010	EB03-SA5B-121510	6166201	EB	3510C	8270C	III
15-Dec-2010	EB03-SA5B-121510	6166201	EB	3510C	8270C SIM	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	EB03-SA5B-121510	6166201	EB	Gen Prep	300.0	III
15-Dec-2010	EB03-SA5B-121510	6166201	EB	Gen Prep	314.0	III
15-Dec-2010	EB03-SA5B-121510	6166201	EB	Gen Prep	7199	III
15-Dec-2010	EB03-SA5B-121510	6166201	EB	Gen Prep	9040B	III
15-Dec-2010	EB03-SA5B-121510	6166201	EB	METHOD	7470A	III
15-Dec-2010	EB03-SA5B-121510	6166201	EB	METHOD	8151A	III
15-Dec-2010	EB15-SA5B-121510	6166202	EB	3005A	6010B	III
15-Dec-2010	EB15-SA5B-121510	6166202	EB	3020A	6020	III
15-Dec-2010	EB15-SA5B-121510	6166202	EB	3510C	8081A	III
15-Dec-2010	EB15-SA5B-121510	6166202	EB	3510C	8082	III
15-Dec-2010	EB15-SA5B-121510	6166202	EB	3510C	8270C	III
15-Dec-2010	EB15-SA5B-121510	6166202	EB	3510C	8270C SIM	III
15-Dec-2010	EB15-SA5B-121510	6166202	EB	5030B	8015M	III
15-Dec-2010	EB15-SA5B-121510	6166202	EB	5030B	8260B	III
15-Dec-2010	EB15-SA5B-121510	6166202	EB	5030B	8260B SIM	III
15-Dec-2010	EB15-SA5B-121510	6166202	EB	Gen Prep	300.0	III
15-Dec-2010	EB15-SA5B-121510	6166202	EB	Gen Prep	314.0	III
15-Dec-2010	EB15-SA5B-121510	6166202	EB	Gen Prep	7199	III
15-Dec-2010	EB15-SA5B-121510	6166202	EB	Gen Prep	9040B	III
15-Dec-2010	EB15-SA5B-121510	6166202	EB	METHOD	7470A	III
15-Dec-2010	EB15-SA5B-121510	6166202	EB	METHOD	8151A	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	3050B	6010B	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	3050B	6020	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	3060A	7199	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	3546	1625C	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	3550B	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	3550B	8015M	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	3550B	8081A	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	3550B	8082	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	3550B	8151A	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	3550B	8270C	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	3550B	8270C SIM	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	5035	8015M	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	5035	8260B	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	5035	8260B SIM	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	8330	8330A	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	Gen Prep	300.0	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	Gen Prep	9045M	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	METHOD	314.0	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	METHOD	7471A	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	METHOD	8015B	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	METHOD	8015M	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	METHOD	8315A	III
15-Dec-2010	SL-298-SA5B-SB-4.0-5.0	6166203	N	METHOD	9012B	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	3050B	6010B	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	3050B	6020	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	3060A	7199	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	3546	1625C	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	3550B	8015B	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	3550B	8015M	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	3550B	8081A	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	3550B	8082	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	3550B	8151A	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	3550B	8270C	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	3550B	8270C SIM	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	5035	8015M	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	5035	8260B	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	5035	8260B SIM	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	8330	8330A	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	Gen Prep	300.0	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	Gen Prep	9045M	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	METHOD	314.0	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	METHOD	6850	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	METHOD	7471A	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	METHOD	8015B	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	METHOD	8015M	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	METHOD	8315A	III
15-Dec-2010	SL-298-SA5B-SB-9.0-10.0	6166204	N	METHOD	9012B	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	3050B	6010B	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	3050B	6020	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	3060A	7199	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	3546	1625C	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	3550B	8015B	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	3550B	8015M	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	3550B	8081A	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	3550B	8082	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	3550B	8151A	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	3550B	8270C	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

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FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	3550B	8270C SIM	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	5035	8015M	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	5035	8260B	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	5035	8260B SIM	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	8330	8330A	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	Gen Prep	9045M	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	METHOD	300.0	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	METHOD	314.0	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	METHOD	7471A	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	METHOD	8015B	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	METHOD	8015M	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	METHOD	8315A	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0	6166205	N	METHOD	9012B	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0DUP	P166205D270124B	DUP	METHOD	300.0	III
15-Dec-2010	SL-297-SA5B-SB-4.0-5.0MS	P166205R270207B	MS	METHOD	300.0	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	3050B	6010B	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	3050B	6020	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	3060A	7199	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	3546	1625C	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	3550B	8015B	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	3550B	8015M	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	3550B	8081A	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	3550B	8082	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	3550B	8151A	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	3550B	8270C	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	3550B	8270C SIM	III

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MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	5035	8015M	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	5035	8260B	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	5035	8260B SIM	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	8330	8330A	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	Gen Prep	9045M	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	METHOD	300.0	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	METHOD	314.0	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	METHOD	7471A	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	METHOD	8015B	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	METHOD	8015M	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	METHOD	8315A	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0	6166206	N	METHOD	9012B	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0DUP	P166206D272013B	DUP	METHOD	314.0	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0DUP	P166206D291430B	DUP	Gen Prep	9045M	III
15-Dec-2010	SL-297-SA5B-SB-7.0-8.0MS	P166206R272036B	MS	METHOD	314.0	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: EM

Method: 9040B

Matrix: AQ

Sample ID: EB03-SA5B-121510

Collected: 12/15/2010 12:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PH	5.6		0.010	MDL	0.010	PQL	pH unit	J	H

Sample ID: EB15-SA5B-121510

Collected: 12/15/2010 12:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PH	5.3		0.010	MDL	0.010	PQL	pH unit	J	H

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: DUP06-SA5B-QC-121510

Collected: 12/15/2010 9:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.84	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-027-SA5B-SB-4.0-5.0

Collected: 12/15/2010 10:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.96	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-027-SA5B-SB-8.0-9.0

Collected: 12/15/2010 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.3		0.88	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	0.95	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-262-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.84	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-263-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.0	J	0.85	MDL	1.1	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/22/2011 10:56:32 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-264-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.86	U	0.86	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-297-SA5B-SB-4.0-5.0

Collected: 12/15/2010 4:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.1		0.92	MDL	1.2	PQL	mg/Kg	J	Q
Nitrate-NO3	1.3	J	0.92	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA5B-SB-7.0-8.0

Collected: 12/15/2010 4:06:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.96	MDL	1.2	PQL	mg/Kg	J	Q
Nitrate-NO3	1.0	J	0.96	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-298-SA5B-SB-4.0-5.0

Collected: 12/15/2010 2:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.91	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.6	J	0.91	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-298-SA5B-SB-9.0-10.0

Collected: 12/15/2010 2:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.0		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-302-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.90	U	0.90	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-303-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.93	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/22/2011 10:56:32 AM

ADR version 1.3.0.71

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: DUP06-SA5B-QC-121510

Collected: 12/15/2010 9:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2960		18.4	MDL	51.1	PQL	mg/Kg	J	Q
TIN	2.59	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.29	J	0.858	MDL	5.11	PQL	mg/Kg	J	Z

Sample ID: SL-027-SA5B-SB-4.0-5.0

Collected: 12/15/2010 10:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3930		21.3	MDL	59.2	PQL	mg/Kg	J	Q
TIN	2.74	J	1.18	MDL	11.8	PQL	mg/Kg	U	B
Zirconium	3.41	J	0.995	MDL	5.92	PQL	mg/Kg	J	Z

Sample ID: SL-027-SA5B-SB-8.0-9.0

Collected: 12/15/2010 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2100		19.0	MDL	52.8	PQL	mg/Kg	J	Q
TIN	2.50	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.83	J	0.887	MDL	5.28	PQL	mg/Kg	J	Z

Sample ID: SL-262-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3390		18.4	MDL	51.2	PQL	mg/Kg	J	Q
TIN	2.65	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.57	J	0.860	MDL	5.12	PQL	mg/Kg	J	Z

Sample ID: SL-263-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3530		18.6	MDL	51.8	PQL	mg/Kg	J	Q
TIN	2.39	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	4.27	J	0.869	MDL	5.18	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-264-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2680		18.9	MDL	52.5	PQL	mg/Kg	J	Q
SODIUM	90.8	J	39.2	MDL	105	PQL	mg/Kg	J	Z
TIN	2.85	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.80	J	0.883	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA5B-SB-4.0-5.0

Collected: 12/15/2010 4:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2740		20.1	MDL	55.9	PQL	mg/Kg	J	Q
TIN	2.73	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	3.78	J	0.940	MDL	5.59	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA5B-SB-7.0-8.0

Collected: 12/15/2010 4:06:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	6040		21.2	MDL	58.8	PQL	mg/Kg	J	Q

Sample ID: SL-297-SA5B-SB-7.0-8.0

Collected: 12/15/2010 4:06:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.75	J	1.18	MDL	11.8	PQL	mg/Kg	U	B
Zirconium	5.58	J	0.987	MDL	5.88	PQL	mg/Kg	J	Z

Sample ID: SL-298-SA5B-SB-4.0-5.0

Collected: 12/15/2010 2:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3090		20.0	MDL	55.6	PQL	mg/Kg	J	Q
TIN	2.91	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.17	J	0.934	MDL	5.56	PQL	mg/Kg	J	Z

Sample ID: SL-298-SA5B-SB-9.0-10.0

Collected: 12/15/2010 2:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2290		19.1	MDL	53.2	PQL	mg/Kg	J	Q
SODIUM	82.2	J	39.7	MDL	106	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-298-SA5B-SB-9.0-10.0

Collected: 12/15/2010 2:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.51	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.68	J	0.894	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-302-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3220		20.1	MDL	55.7	PQL	mg/Kg	J	Q
TIN	2.51	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	3.22	J	0.937	MDL	5.57	PQL	mg/Kg	J	Z

Sample ID: SL-303-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4020		20.8	MDL	57.8	PQL	mg/Kg	J	Q
TIN	2.77	J	1.16	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	4.92	J	0.972	MDL	5.78	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: AQ

Sample ID: EB03-SA5B-121510

Collected: 12/15/2010 12:15:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.00012	J	0.00005 2	MDL	0.0010	PQL	mg/L	J	Z

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP06-SA5B-QC-121510

Collected: 12/15/2010 9:35:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.205	J	0.0409	MDL	0.409	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP06-SA5B-QC-121510

Collected: 12/15/2010 9:35:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.885		0.0511	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: DUP06-SA5B-QC-121510

Collected: 12/15/2010 9:35:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	145		0.110	MDL	0.409	PQL	mg/Kg	J	A

Sample ID: DUP06-SA5B-QC-121510

Collected: 12/15/2010 9:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.216		0.0613	MDL	0.204	PQL	mg/Kg	J	Q
ARSENIC	8.73		0.0613	MDL	0.409	PQL	mg/Kg	J	Q
CADMIUM	0.209		0.0368	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	30.9		0.123	MDL	0.409	PQL	mg/Kg	J	Q
LEAD	16.1		0.0106	MDL	0.204	PQL	mg/Kg	J	A
NICKEL	19.5		0.102	MDL	0.409	PQL	mg/Kg	J	Q
SILVER	0.0779	J	0.0123	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.396		0.0307	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	59.2		0.0225	MDL	0.102	PQL	mg/Kg	J	Q
ZINC	112		0.572	MDL	3.07	PQL	mg/Kg	J	A

Sample ID: SL-027-SA5B-SB-4.0-5.0

Collected: 12/15/2010 10:19:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0695	J	0.0469	MDL	0.469	PQL	mg/Kg	J	Z, Q

Sample ID: SL-027-SA5B-SB-4.0-5.0

Collected: 12/15/2010 10:19:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.566		0.0586	MDL	0.117	PQL	mg/Kg	J	Q

Sample ID: SL-027-SA5B-SB-4.0-5.0

Collected: 12/15/2010 10:19:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	123		0.127	MDL	0.469	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-027-SA5B-SB-4.0-5.0

Collected: 12/15/2010 10:19:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.114	J	0.0704	MDL	0.235	PQL	mg/Kg	J	Z, Q
ARSENIC	7.75		0.0704	MDL	0.469	PQL	mg/Kg	J	Q
CADMIUM	0.180		0.0422	MDL	0.117	PQL	mg/Kg	J	Q
CHROMIUM	24.1		0.141	MDL	0.469	PQL	mg/Kg	J	Q
LEAD	7.10		0.0122	MDL	0.235	PQL	mg/Kg	J	A
NICKEL	14.3		0.117	MDL	0.469	PQL	mg/Kg	J	Q
SILVER	0.0150	J	0.0141	MDL	0.117	PQL	mg/Kg	J	Z, Q
THALLIUM	0.401		0.0352	MDL	0.117	PQL	mg/Kg	J	Q
VANADIUM	48.2		0.0258	MDL	0.117	PQL	mg/Kg	J	Q
ZINC	96.9		0.657	MDL	3.52	PQL	mg/Kg	J	A

Sample ID: SL-027-SA5B-SB-8.0-9.0

Collected: 12/15/2010 10:25:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.203	J	0.0435	MDL	0.435	PQL	mg/Kg	J	Z, Q

Sample ID: SL-027-SA5B-SB-8.0-9.0

Collected: 12/15/2010 10:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.17		0.0543	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-027-SA5B-SB-8.0-9.0

Collected: 12/15/2010 10:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	89.6		0.117	MDL	0.435	PQL	mg/Kg	J	A

Sample ID: SL-027-SA5B-SB-8.0-9.0

Collected: 12/15/2010 10:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0942	J	0.0652	MDL	0.217	PQL	mg/Kg	J	Z, Q
ARSENIC	7.43		0.0652	MDL	0.435	PQL	mg/Kg	J	Q
CADMIUM	0.0432	J	0.0391	MDL	0.109	PQL	mg/Kg	J	Z, Q
CHROMIUM	14.9		0.130	MDL	0.435	PQL	mg/Kg	J	Q
LEAD	6.42		0.0113	MDL	0.217	PQL	mg/Kg	J	A
NICKEL	8.79		0.109	MDL	0.435	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-027-SA5B-SB-8.0-9.0

Collected: 12/15/2010 10:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0296	J	0.0130	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.312		0.0326	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	36.2		0.0239	MDL	0.109	PQL	mg/Kg	J	Q
ZINC	68.1		0.609	MDL	3.26	PQL	mg/Kg	J	A

Sample ID: SL-262-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:25:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.189	J	0.0414	MDL	0.414	PQL	mg/Kg	J	Z, Q

Sample ID: SL-262-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.802		0.0517	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-262-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	104		0.112	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: SL-262-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.282		0.0621	MDL	0.207	PQL	mg/Kg	J	Q
ARSENIC	6.06		0.0621	MDL	0.414	PQL	mg/Kg	J	Q
CADMIUM	0.175		0.0372	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	24.3		0.124	MDL	0.414	PQL	mg/Kg	J	Q
LEAD	13.6		0.0108	MDL	0.207	PQL	mg/Kg	J	A
NICKEL	15.1		0.103	MDL	0.414	PQL	mg/Kg	J	Q
SILVER	0.0970	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.291		0.0310	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	46.5		0.0228	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	81.9		0.579	MDL	3.10	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-263-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:07:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.195	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z, Q

Sample ID: SL-263-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:07:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.24		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-263-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:07:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	108		0.114	MDL	0.422	PQL	mg/Kg	J	A

Sample ID: SL-263-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:07:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.272		0.0633	MDL	0.211	PQL	mg/Kg	J	Q
ARSENIC	5.58		0.0633	MDL	0.422	PQL	mg/Kg	J	Q
CADMIUM	0.583		0.0380	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	25.6		0.127	MDL	0.422	PQL	mg/Kg	J	Q
LEAD	38.4		0.0110	MDL	0.211	PQL	mg/Kg	J	A
NICKEL	16.0		0.106	MDL	0.422	PQL	mg/Kg	J	Q
SILVER	0.136		0.0127	MDL	0.106	PQL	mg/Kg	J	Q
THALLIUM	0.299		0.0317	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	53.8		0.0232	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	139		0.591	MDL	3.17	PQL	mg/Kg	J	A

Sample ID: SL-264-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:05:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.167	J	0.0420	MDL	0.420	PQL	mg/Kg	J	Z, Q

Sample ID: SL-264-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:05:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.995		0.0525	MDL	0.105	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-264-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:05:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	119		0.113	MDL	0.420	PQL	mg/Kg	J	A

Sample ID: SL-264-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:05:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.449		0.0630	MDL	0.210	PQL	mg/Kg	J	Q
ARSENIC	25.3		0.0630	MDL	0.420	PQL	mg/Kg	J	Q
CADMIUM	0.214		0.0378	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	29.0		0.126	MDL	0.420	PQL	mg/Kg	J	Q
LEAD	17.2		0.0109	MDL	0.210	PQL	mg/Kg	J	A
NICKEL	20.3		0.105	MDL	0.420	PQL	mg/Kg	J	Q
SILVER	0.175		0.0126	MDL	0.105	PQL	mg/Kg	J	Q
THALLIUM	0.415		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	50.2		0.0231	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	111		0.588	MDL	3.15	PQL	mg/Kg	J	A

Sample ID: SL-297-SA5B-SB-4.0-5.0

Collected: 12/15/2010 4:00:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.295	J	0.0452	MDL	0.452	PQL	mg/Kg	J	Z, Q

Sample ID: SL-297-SA5B-SB-4.0-5.0

Collected: 12/15/2010 4:00:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.01		0.0565	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-297-SA5B-SB-4.0-5.0

Collected: 12/15/2010 4:00:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	161		0.122	MDL	0.452	PQL	mg/Kg	J	A

Sample ID: SL-297-SA5B-SB-4.0-5.0

Collected: 12/15/2010 4:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.336		0.0678	MDL	0.226	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-297-SA5B-SB-4.0-5.0

Collected: 12/15/2010 4:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	13.1		0.0678	MDL	0.452	PQL	mg/Kg	J	Q
CADMIUM	0.564		0.0407	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	45.6		0.136	MDL	0.452	PQL	mg/Kg	J	Q
LEAD	15.6		0.0117	MDL	0.226	PQL	mg/Kg	J	A
NICKEL	24.8		0.113	MDL	0.452	PQL	mg/Kg	J	Q
SILVER	0.0596	J	0.0136	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.483		0.0339	MDL	0.113	PQL	mg/Kg	J	Q
VANADIUM	80.6		0.0248	MDL	0.113	PQL	mg/Kg	J	Q
ZINC	122		0.633	MDL	3.39	PQL	mg/Kg	J	A

Sample ID: SL-297-SA5B-SB-7.0-8.0

Collected: 12/15/2010 4:06:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.147	J	0.0461	MDL	0.461	PQL	mg/Kg	J	Z, Q

Sample ID: SL-297-SA5B-SB-7.0-8.0

Collected: 12/15/2010 4:06:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.04		0.0576	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-297-SA5B-SB-7.0-8.0

Collected: 12/15/2010 4:06:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	171		0.125	MDL	0.461	PQL	mg/Kg	J	A

Sample ID: SL-297-SA5B-SB-7.0-8.0

Collected: 12/15/2010 4:06:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.196	J	0.0692	MDL	0.231	PQL	mg/Kg	J	Z, Q
ARSENIC	6.95		0.0692	MDL	0.461	PQL	mg/Kg	J	Q
CADMIUM	0.166		0.0415	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	27.9		0.138	MDL	0.461	PQL	mg/Kg	J	Q
LEAD	9.67		0.0120	MDL	0.231	PQL	mg/Kg	J	A
NICKEL	17.0		0.115	MDL	0.461	PQL	mg/Kg	J	Q
SILVER	0.0760	J	0.0138	MDL	0.115	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-297-SA5B-SB-7.0-8.0

Collected: 12/15/2010 4:06:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.365		0.0346	MDL	0.115	PQL	mg/Kg	J	Q
VANADIUM	54.7		0.0254	MDL	0.115	PQL	mg/Kg	J	Q
ZINC	79.1		0.646	MDL	3.46	PQL	mg/Kg	J	A

Sample ID: SL-298-SA5B-SB-4.0-5.0

Collected: 12/15/2010 2:25:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.138	J	0.0449	MDL	0.449	PQL	mg/Kg	J	Z, Q

Sample ID: SL-298-SA5B-SB-4.0-5.0

Collected: 12/15/2010 2:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.05		0.0561	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-298-SA5B-SB-4.0-5.0

Collected: 12/15/2010 2:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	156		0.121	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SL-298-SA5B-SB-4.0-5.0

Collected: 12/15/2010 2:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.109	J	0.0674	MDL	0.225	PQL	mg/Kg	J	Z, Q
ARSENIC	8.07		0.0674	MDL	0.449	PQL	mg/Kg	J	Q
CADMIUM	0.155		0.0404	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	27.5		0.135	MDL	0.449	PQL	mg/Kg	J	Q
LEAD	8.72		0.0117	MDL	0.225	PQL	mg/Kg	J	A
NICKEL	15.6		0.112	MDL	0.449	PQL	mg/Kg	J	Q
SILVER	0.0643	J	0.0135	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.404		0.0337	MDL	0.112	PQL	mg/Kg	J	Q
VANADIUM	53.5		0.0247	MDL	0.112	PQL	mg/Kg	J	Q
ZINC	76.8		0.629	MDL	3.37	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-298-SA5B-SB-9.0-10.0

Collected: 12/15/2010 2:35:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.181	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z, Q

Sample ID: SL-298-SA5B-SB-9.0-10.0

Collected: 12/15/2010 2:35:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.553		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-298-SA5B-SB-9.0-10.0

Collected: 12/15/2010 2:35:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	57.8		0.114	MDL	0.421	PQL	mg/Kg	J	A

Sample ID: SL-298-SA5B-SB-9.0-10.0

Collected: 12/15/2010 2:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0632	U	0.0632	MDL	0.211	PQL	mg/Kg	UJ	Q
ARSENIC	6.27		0.0632	MDL	0.421	PQL	mg/Kg	J	Q
CADMIUM	0.110		0.0379	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	15.4		0.126	MDL	0.421	PQL	mg/Kg	J	Q
LEAD	4.83		0.0110	MDL	0.211	PQL	mg/Kg	J	A
NICKEL	8.47		0.105	MDL	0.421	PQL	mg/Kg	J	Q
SILVER	0.0139	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.291		0.0316	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	34.5		0.0232	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	66.1		0.590	MDL	3.16	PQL	mg/Kg	J	A

Sample ID: SL-302-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:49:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.141	J	0.0442	MDL	0.442	PQL	mg/Kg	J	Z, Q

Sample ID: SL-302-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:49:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.437		0.0552	MDL	0.110	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-302-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:49:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	197		0.119	MDL	0.442	PQL	mg/Kg	J	A

Sample ID: SL-302-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:49:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.153	J	0.0662	MDL	0.221	PQL	mg/Kg	J	Z, Q
ARSENIC	4.47		0.0662	MDL	0.442	PQL	mg/Kg	J	Q
CADMIUM	0.401		0.0397	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	21.8		0.132	MDL	0.442	PQL	mg/Kg	J	Q
LEAD	32.4		0.0115	MDL	0.221	PQL	mg/Kg	J	A
NICKEL	17.3		0.110	MDL	0.442	PQL	mg/Kg	J	Q
SILVER	0.402		0.0132	MDL	0.110	PQL	mg/Kg	J	Q
THALLIUM	0.305		0.0331	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	54.2		0.0243	MDL	0.110	PQL	mg/Kg	J	Q
ZINC	129		0.618	MDL	3.31	PQL	mg/Kg	J	A

Sample ID: SL-303-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:40:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.197	J	0.0463	MDL	0.463	PQL	mg/Kg	J	Z, Q

Sample ID: SL-303-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:40:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.826		0.0578	MDL	0.116	PQL	mg/Kg	J	Q

Sample ID: SL-303-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:40:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	178		0.125	MDL	0.463	PQL	mg/Kg	J	A

Sample ID: SL-303-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.243		0.0694	MDL	0.231	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-303-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	6.98		0.0694	MDL	0.463	PQL	mg/Kg	J	Q
CADMIUM	0.278		0.0416	MDL	0.116	PQL	mg/Kg	J	Q
CHROMIUM	35.4		0.139	MDL	0.463	PQL	mg/Kg	J	Q
LEAD	13.5		0.0120	MDL	0.231	PQL	mg/Kg	J	A
NICKEL	20.6		0.116	MDL	0.463	PQL	mg/Kg	J	Q
SILVER	0.0687	J	0.0139	MDL	0.116	PQL	mg/Kg	J	Z, Q
THALLIUM	0.411		0.0347	MDL	0.116	PQL	mg/Kg	J	Q
VANADIUM	69.1		0.0254	MDL	0.116	PQL	mg/Kg	J	Q
ZINC	90.8		0.648	MDL	3.47	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: DUP06-SA5B-QC-121510

Collected: 12/15/2010 9:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.21	MDL	1.1	PQL	mg/Kg	U	B

Sample ID: SL-027-SA5B-SB-4.0-5.0

Collected: 12/15/2010 10:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.39	J	0.24	MDL	1.2	PQL	mg/Kg	U	B

Sample ID: SL-262-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.69	J	0.21	MDL	1.1	PQL	mg/Kg	U	B

Sample ID: SL-263-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.21	MDL	1.1	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-264-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	1.0	J	0.21	MDL	1.1	PQL	mg/Kg	U	B

Sample ID: SL-297-SA5B-SB-4.0-5.0

Collected: 12/15/2010 4:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.62	J	0.23	MDL	1.2	PQL	mg/Kg	U	B

Sample ID: SL-297-SA5B-SB-7.0-8.0

Collected: 12/15/2010 4:06:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.24	MDL	1.2	PQL	mg/Kg	U	B

Sample ID: SL-298-SA5B-SB-4.0-5.0

Collected: 12/15/2010 2:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.55	J	0.23	MDL	1.1	PQL	mg/Kg	U	B

Sample ID: SL-298-SA5B-SB-9.0-10.0

Collected: 12/15/2010 2:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.30	J	0.21	MDL	1.1	PQL	mg/Kg	U	B

Sample ID: SL-302-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	1.1	J	0.23	MDL	1.1	PQL	mg/Kg	U	B

Sample ID: SL-303-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.98	J	0.23	MDL	1.2	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: DUP06-SA5B-QC-121510

Collected: 12/15/2010 9:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0331	J	0.0029	MDL	0.100	PQL	mg/Kg	J	Z, FD

Sample ID: SL-027-SA5B-SB-8.0-9.0

Collected: 12/15/2010 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0224	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-262-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0044	J	0.0028	MDL	0.0976	PQL	mg/Kg	J	Z, FD

Sample ID: SL-263-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0033	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA5B-SB-7.0-8.0

Collected: 12/15/2010 4:06:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0033	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-303-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0391	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C

Matrix: SO

Sample ID: SL-027-SA5B-SB-4.0-5.0

Collected: 12/15/2010 10:19:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	29.9	J	19.9	MDL	39.9	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA									
Method:	8015M	Matrix:	AQ							

Sample ID: EB15-SA5B-121510		Collected: 12/15/2010 12:30:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	20	U	20	MDL	50	PQL	ug/L	UJ	S

Sample ID: TB-121510		Collected: 12/15/2010 8:00:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	20	U	20	MDL	50	PQL	ug/L	UJ	S

Method Category:	SVOA									
Method:	8015M	Matrix:	SO							

Sample ID: SL-027-SA5B-SB-4.0-5.0		Collected: 12/15/2010 10:19:00		Analysis Type: REA		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Propylene glycol	6.0	U	6.0	MDL	15	PQL	mg/Kg	UJ	L

Sample ID: SL-027-SA5B-SB-8.0-9.0		Collected: 12/15/2010 10:25:00		Analysis Type: REA		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Propylene glycol	5.5	U	5.5	MDL	14	PQL	mg/Kg	UJ	L

Sample ID: SL-297-SA5B-SB-4.0-5.0		Collected: 12/15/2010 4:00:00		Analysis Type: REA		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Propylene glycol	5.8	U	5.8	MDL	14	PQL	mg/Kg	UJ	L

Sample ID: SL-297-SA5B-SB-7.0-8.0		Collected: 12/15/2010 4:06:00		Analysis Type: REA		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Propylene glycol	6.0	U	6.0	MDL	15	PQL	mg/Kg	UJ	L

Sample ID: SL-298-SA5B-SB-4.0-5.0		Collected: 12/15/2010 2:25:00		Analysis Type: REA		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Propylene glycol	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: SL-298-SA5B-SB-4.0-5.0

Collected: 12/15/2010 2:25:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.0	J	0.45	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-298-SA5B-SB-9.0-10.0

Collected: 12/15/2010 2:35:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Propylene glycol	5.3	U	5.3	MDL	13	PQL	mg/Kg	UJ	L

Sample ID: SL-298-SA5B-SB-9.0-10.0

Collected: 12/15/2010 2:35:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.46	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.59	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A

Matrix: AQ

Sample ID: EB03-SA5B-121510

Collected: 12/15/2010 12:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.016	J	0.0051	MDL	0.020	PQL	ug/L	J	Z

Sample ID: EB15-SA5B-121510

Collected: 12/15/2010 12:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.0099	J	0.0052	MDL	0.021	PQL	ug/L	J	Z

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-027-SA5B-SB-4.0-5.0

Collected: 12/15/2010 10:19:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.28	J	0.079	MDL	0.41	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-027-SA5B-SB-8.0-9.0

Collected: 12/15/2010 10:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN KETONE	0.11	J	0.072	MDL	0.37	PQL	ug/Kg	J	Z

Sample ID: SL-297-SA5B-SB-4.0-5.0

Collected: 12/15/2010 4:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.19	J	0.076	MDL	0.39	PQL	ug/Kg	J	Z
4,4'-DDE	0.23	J	0.076	MDL	0.39	PQL	ug/Kg	J	Z

Sample ID: SL-297-SA5B-SB-7.0-8.0

Collected: 12/15/2010 4:06:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.16	J	0.079	MDL	0.41	PQL	ug/Kg	J	Z

Sample ID: SL-298-SA5B-SB-4.0-5.0

Collected: 12/15/2010 2:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	R	S
4,4'-DDE	0.19	J	0.075	MDL	0.39	PQL	ug/Kg	J	Z, S
4,4'-DDT	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	R	S
ALDRIN	0.075	U	0.075	MDL	0.19	PQL	ug/Kg	R	S
ALPHA-BHC	0.039	U	0.039	MDL	0.19	PQL	ug/Kg	R	S
BETA-BHC	0.068	U	0.068	MDL	0.19	PQL	ug/Kg	R	S
Chlordane	0.91	U	0.91	MDL	3.9	PQL	ug/Kg	R	S
DELTA-BHC	0.041	U	0.041	MDL	0.19	PQL	ug/Kg	R	S
DIELDRIN	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	R	S
ENDOSULFAN I	0.050	U	0.050	MDL	0.19	PQL	ug/Kg	R	S
ENDOSULFAN II	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	R	S
ENDRIN	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	R	S
ENDRIN KETONE	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.039	U	0.039	MDL	0.19	PQL	ug/Kg	R	S
HEPTACHLOR	0.068	U	0.068	MDL	0.19	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.039	U	0.039	MDL	0.19	PQL	ug/Kg	R	S
METHOXYCHLOR	0.39	U	0.39	MDL	1.9	PQL	ug/Kg	R	S

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-298-SA5B-SB-4.0-5.0

Collected: 12/15/2010 2:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MIREX	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	R	S
TOXAPHENE	2.5	U	2.5	MDL	7.5	PQL	ug/Kg	R	S

Sample ID: SL-298-SA5B-SB-9.0-10.0

Collected: 12/15/2010 2:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MIREX	0.097	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: AQ

Sample ID: EB03-SA5B-121510

Collected: 12/15/2010 12:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	L
Aroclor 5442	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	L
Aroclor 5460	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	L

Sample ID: EB15-SA5B-121510

Collected: 12/15/2010 12:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L
Aroclor 5442	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L
Aroclor 5460	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: DUP06-SA5B-QC-121510

Collected: 12/15/2010 9:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.4	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
AROCLOR 1260	1.3	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: DUP06-SA5B-QC-121510

Collected: 12/15/2010 9:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.3	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, FD, L

Sample ID: SL-027-SA5B-SB-4.0-5.0

Collected: 12/15/2010 10:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L

Sample ID: SL-027-SA5B-SB-8.0-9.0

Collected: 12/15/2010 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-262-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	4.4		0.35	MDL	1.8	PQL	ug/Kg	J	FD
AROCLOR 1260	2.3		0.35	MDL	1.8	PQL	ug/Kg	J	FD
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	4.4		1.1	MDL	3.5	PQL	ug/Kg	J	FD, L

Sample ID: SL-263-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:07:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	6.2		0.70	MDL	3.6	PQL	ug/Kg	J	S
AROCLOR 1254	15		0.70	MDL	3.6	PQL	ug/Kg	J	S
AROCLOR 1260	15		0.70	MDL	3.6	PQL	ug/Kg	J	S
Aroclor 5432	2.1	U	2.1	MDL	7.0	PQL	ug/Kg	UJ	L
Aroclor 5442	2.1	U	2.1	MDL	7.0	PQL	ug/Kg	UJ	L
Aroclor 5460	41		2.1	MDL	7.0	PQL	ug/Kg	J	S, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-264-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOR 1248	0.73	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCOR 1254	1.1	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCOR 1260	0.61	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.6	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, L

Sample ID: SL-297-SA5B-SB-4.0-5.0

Collected: 12/15/2010 4:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L

Sample ID: SL-297-SA5B-SB-7.0-8.0

Collected: 12/15/2010 4:06:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	4.0	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	4.0	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	4.0	PQL	ug/Kg	UJ	L

Sample ID: SL-298-SA5B-SB-4.0-5.0

Collected: 12/15/2010 2:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-298-SA5B-SB-9.0-10.0

Collected: 12/15/2010 2:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-302-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	6.6		1.1	MDL	3.7	PQL	ug/Kg	J	L

Sample ID: SL-303-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOR 1260	1.4	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5432	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5460	1.5	J	1.2	MDL	3.9	PQL	ug/Kg	J	Z, L

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: DUP06-SA5B-QC-121510

Collected: 12/15/2010 9:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPA	790		80	MDL	260	PQL	ug/Kg	J	FD

Sample ID: SL-027-SA5B-SB-4.0-5.0

Collected: 12/15/2010 10:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.4	J	0.74	MDL	2.0	PQL	ug/Kg	J	Z
DINOSEB	0.96	U	0.96	MDL	2.9	PQL	ug/Kg	R	L

Sample ID: SL-027-SA5B-SB-8.0-9.0

Collected: 12/15/2010 10:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-262-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPA	84	U	84	MDL	260	PQL	ug/Kg	UJ	FD

Sample ID: SL-263-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.58	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-264-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.54	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-297-SA5B-SB-4.0-5.0

Collected: 12/15/2010 4:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.92	U	0.92	MDL	2.8	PQL	ug/Kg	R	L
MCPA	220	J	88	MDL	290	PQL	ug/Kg	J	Z
MCPP	180	J	86	MDL	290	PQL	ug/Kg	J	Z

Sample ID: SL-297-SA5B-SB-7.0-8.0

Collected: 12/15/2010 4:06:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.96	U	0.96	MDL	2.9	PQL	ug/Kg	R	L

Sample ID: SL-298-SA5B-SB-4.0-5.0

Collected: 12/15/2010 2:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	2.6	J	1.4	MDL	4.1	PQL	ug/Kg	J	Z, L
DINOSEB	0.91	U	0.91	MDL	2.7	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-298-SA5B-SB-9.0-10.0

Collected: 12/15/2010 2:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	2.6	J	1.3	MDL	3.8	PQL	ug/Kg	J	Z, L
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-302-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:49:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-303-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C

Matrix: AQ

Sample ID: EB03-SA5B-121510

Collected: 12/15/2010 12:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3-DICHLOROBENZENE	1	U	1	MDL	5	PQL	ug/L	UJ	L
1,4-DICHLOROBENZENE	1	U	1	MDL	5	PQL	ug/L	UJ	L
4-CHLOROANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	E
ANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	E
BENZIDINE	21	U	21	MDL	63	PQL	ug/L	UJ	E
BENZOIC ACID	6	U	6	MDL	16	PQL	ug/L	UJ	E
HEXACHLOROCYCLOPENTADIENE	5	U	5	MDL	16	PQL	ug/L	UJ	E

Sample ID: EB15-SA5B-121510

Collected: 12/15/2010 12:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3-DICHLOROBENZENE	1	U	1	MDL	5	PQL	ug/L	UJ	L
1,4-DICHLOROBENZENE	1	U	1	MDL	5	PQL	ug/L	UJ	L
4-CHLOROANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	E
ANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	E
BENZIDINE	21	U	21	MDL	62	PQL	ug/L	UJ	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA
Method:	8270C
Matrix:	AQ

Sample ID: EB15-SA5B-121510

Collected: 12/15/2010 12:30:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E
HEXACHLOROCYCLOPENTADIENE	5	U	5	MDL	15	PQL	ug/L	UJ	E

Method Category:	SVOA
Method:	8270C
Matrix:	SO

Sample ID: SL-262-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	R	Q
N-NITROSODIPHENYLAMINE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q

Sample ID: SL-263-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:07:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	28	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	45	J	18	MDL	180	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	150	J	18	MDL	360	PQL	ug/Kg	J	Z
Butylbenzylphthalate	27	J	18	MDL	180	PQL	ug/Kg	J	Z
CHRYSENE	49	J	18	MDL	180	PQL	ug/Kg	J	Z
PHENANTHRENE	24	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	65	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-302-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:49:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	51	J	19	MDL	190	PQL	ug/Kg	J	Z

Method Category:	SVOA
Method:	8270C SIM
Matrix:	AQ

Sample ID: EB03-SA5B-121510

Collected: 12/15/2010 12:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0099	U	0.0099	MDL	0.050	PQL	ug/L	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: AQ

Sample ID: EB03-SA5B-121510

Collected: 12/15/2010 12:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.0099	U	0.0099	MDL	0.050	PQL	ug/L	UJ	L
BENZO(K)FLUORANTHENE	0.0099	U	0.0099	MDL	0.050	PQL	ug/L	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	0.15	J	0.050	MDL	0.99	PQL	ug/L	J	Z
Butylbenzylphthalate	0.060	J	0.050	MDL	0.99	PQL	ug/L	U	B
CHRYSENE	0.0099	U	0.0099	MDL	0.050	PQL	ug/L	UJ	L
DIBENZO(A,H)ANTHRACENE	0.0099	U	0.0099	MDL	0.050	PQL	ug/L	UJ	L
Diethylphthalate	0.13	J	0.050	MDL	0.99	PQL	ug/L	J	Z, L
Dimethylphthalate	0.050	U	0.050	MDL	0.99	PQL	ug/L	UJ	L
Di-n-butylphthalate	0.33	J	0.050	MDL	0.99	PQL	ug/L	J	Z
Di-n-octylphthalate	0.079	J	0.050	MDL	0.99	PQL	ug/L	J	Z
FLUORANTHENE	0.0099	U	0.0099	MDL	0.050	PQL	ug/L	UJ	L
NAPHTHALENE	0.036	J	0.0099	MDL	0.050	PQL	ug/L	J	Z
N-NITROSODIMETHYLAMINE	0.0099	U	0.0099	MDL	0.050	PQL	ug/L	UJ	L

Sample ID: EB15-SA5B-121510

Collected: 12/15/2010 12:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.011	U	0.011	MDL	0.057	PQL	ug/L	UJ	L
2-METHYLNAPHTHALENE	0.011	U	0.011	MDL	0.057	PQL	ug/L	UJ	L
BENZO(K)FLUORANTHENE	0.011	U	0.011	MDL	0.057	PQL	ug/L	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	0.19	J	0.057	MDL	1.1	PQL	ug/L	J	Z
Butylbenzylphthalate	0.066	J	0.057	MDL	1.1	PQL	ug/L	U	B
CHRYSENE	0.011	U	0.011	MDL	0.057	PQL	ug/L	UJ	L
DIBENZO(A,H)ANTHRACENE	0.011	U	0.011	MDL	0.057	PQL	ug/L	UJ	L
Diethylphthalate	0.12	J	0.057	MDL	1.1	PQL	ug/L	J	Z, L
Dimethylphthalate	0.057	U	0.057	MDL	1.1	PQL	ug/L	UJ	L
Di-n-butylphthalate	0.18	J	0.057	MDL	1.1	PQL	ug/L	J	Z
Di-n-octylphthalate	0.088	J	0.057	MDL	1.1	PQL	ug/L	J	Z
FLUORANTHENE	0.011	U	0.011	MDL	0.057	PQL	ug/L	UJ	L
NAPHTHALENE	0.030	J	0.011	MDL	0.057	PQL	ug/L	J	Z
N-NITROSODIMETHYLAMINE	0.011	U	0.011	MDL	0.057	PQL	ug/L	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: DUP06-SA5B-QC-121510

Collected: 12/15/2010 9:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	3.4		0.70	MDL	1.8	PQL	ug/Kg	J	FD
2-METHYLNAPHTHALENE	4.1		0.70	MDL	1.8	PQL	ug/Kg	J	FD
ANTHRACENE	0.90	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	8.4		0.70	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	9.9		0.70	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	14		0.70	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	7.5		0.70	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	5.0		0.70	MDL	1.8	PQL	ug/Kg	J	FD
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.3	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.0	J	6.3	MDL	19	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	7.1		0.70	MDL	1.8	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	4.9		0.70	MDL	1.8	PQL	ug/Kg	J	FD
NAPHTHALENE	2.8		0.70	MDL	1.8	PQL	ug/Kg	J	FD
PHENANTHRENE	7.4		0.70	MDL	1.8	PQL	ug/Kg	J	FD
PYRENE	9.1		0.70	MDL	1.8	PQL	ug/Kg	J	FD

Sample ID: SL-027-SA5B-SB-4.0-5.0

Collected: 12/15/2010 10:19:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.2	J	7.2	MDL	22	PQL	ug/Kg	J	Z

Sample ID: SL-027-SA5B-SB-8.0-9.0

Collected: 12/15/2010 10:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.0	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-octylphthalate	9.2	J	6.6	MDL	20	PQL	ug/Kg	J	Z
PHENANTHRENE	0.94	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-262-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.7	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z, FD
2-METHYLNAPHTHALENE	2.2		0.70	MDL	1.8	PQL	ug/Kg	J	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-262-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.51	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	3.9		0.70	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	5.0		0.70	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	5.9		0.70	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	4.5		0.70	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	2.6		0.70	MDL	1.8	PQL	ug/Kg	J	FD
BIS(2-ETHYLHEXYL)PHthalate	13	J	6.3	MDL	19	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.3	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-octylphthalate	6.3	U	6.3	MDL	19	PQL	ug/Kg	UJ	FD
FLUORANTHENE	2.8		0.70	MDL	1.8	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	2.6		0.70	MDL	1.8	PQL	ug/Kg	J	FD
NAPHTHALENE	1.5	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	3.4		0.70	MDL	1.8	PQL	ug/Kg	J	FD
PYRENE	4.5		0.70	MDL	1.8	PQL	ug/Kg	J	FD

Sample ID: SL-263-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:07:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.40	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
FLUORENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-264-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.93	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	11	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.4	J	6.4	MDL	19	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-octylphthalate	12	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-297-SA5B-SB-4.0-5.0

Collected: 12/15/2010 4:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.39	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-297-SA5B-SB-7.0-8.0

Collected: 12/15/2010 4:06:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.89	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	1.5	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	0.85	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-298-SA5B-SB-4.0-5.0

Collected: 12/15/2010 2:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.6	J	6.8	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.56	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.97	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-302-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.4	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	1.6	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.92	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-octylphthalate	9.8	J	6.8	MDL	20	PQL	ug/Kg	J	Z
FLUORENE	0.91	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.7	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-303-SA5B-SS-0.0-0.5

Collected: 12/15/2010 9:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	4.5	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	55	J	35	MDL	110	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	4.6	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
PHENANTHRENE	5.9	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
PYRENE	5.2	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8315A

Matrix: SO

Sample ID: SL-297-SA5B-SB-4.0-5.0

Collected: 12/15/2010 4:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	920	J	690	MDL	1700	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B

Matrix: SO

Sample ID: SL-027-SA5B-SB-4.0-5.0

Collected: 12/15/2010 10:19:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	170	J	120	MDL	600	PQL	ug/Kg	J	Z

Sample ID: SL-027-SA5B-SB-8.0-9.0

Collected: 12/15/2010 10:25:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	270	J	110	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-297-SA5B-SB-4.0-5.0

Collected: 12/15/2010 4:00:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	170	J	120	MDL	580	PQL	ug/Kg	J	Z

Sample ID: SL-297-SA5B-SB-7.0-8.0

Collected: 12/15/2010 4:06:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	510	J	120	MDL	600	PQL	ug/Kg	J	Z

Sample ID: SL-298-SA5B-SB-9.0-10.0

Collected: 12/15/2010 2:35:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	290	J	110	MDL	530	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-027-SA5B-SB-4.0-5.0

Collected: 12/15/2010 10:19:00

Analysis Type: RES

Dilution: 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	7.7	J	1.4	MDL	9.1	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.4	J	0.27	MDL	4.6	PQL	ug/Kg	U	B

Sample ID: SL-027-SA5B-SB-8.0-9.0

Collected: 12/15/2010 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	2.7	J	1.3	MDL	8.8	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.95	J	0.26	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-297-SA5B-SB-4.0-5.0

Collected: 12/15/2010 4:00:00

Analysis Type: RES

Dilution: 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	3.4	J	1.3	MDL	8.3	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.2	J	0.25	MDL	4.2	PQL	ug/Kg	U	B

Sample ID: SL-297-SA5B-SB-7.0-8.0

Collected: 12/15/2010 4:06:00

Analysis Type: RES

Dilution: 1.02

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	6.1	J	1.5	MDL	9.8	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.3	J	0.29	MDL	4.9	PQL	ug/Kg	U	B

Sample ID: SL-298-SA5B-SB-4.0-5.0

Collected: 12/15/2010 2:25:00

Analysis Type: RES

Dilution: 1.03

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.3	J	0.28	MDL	4.7	PQL	ug/Kg	U	B

Sample ID: SL-298-SA5B-SB-9.0-10.0

Collected: 12/15/2010 2:35:00

Analysis Type: RES

Dilution: 1.08

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	3.5	J	1.4	MDL	9.2	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.2	J	0.28	MDL	4.6	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B SIM

Matrix: SO

Sample ID: SL-297-SA5B-SB-4.0-5.0

Collected: 12/15/2010 4:00:00

Analysis Type: RES

Dilution: 20.1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,4-DIOXANE	5.2	J	4.6	MDL	14	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

25337Cov_SSFL.wpd

Quality Control Outlier Reports

DE041

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE041
EDD Filename: DE041_v1

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

Method: 9040B
Matrix: AQ

Preparation Method: Gen Prep

Sample ID	Type	Actual	Criteria	Units	Flag
EB03-SA5B-121510 (RES)	Sampling To Analysis	55.00	48.00	HOURS	J (all detects)
EB15-SA5B-121510 (RES)		55.00	48.00	HOURS	UJ (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35548CB221648	12/23/2010 4:48:00 PM	MAGNESIUM	0.0421 mg/L	EB03-SA5B-121510 EB15-SA5B-121510
P35548CB222358	12/22/2010 11:58:00 PM	CALCIUM	0.0960 mg/L	EB03-SA5B-121510 EB15-SA5B-121510

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35408DB221153	12/26/2010 11:53:00 AM	ALUMINUM MANGANESE PHOSPHORUS TIN	5.13 mg/Kg 0.111 mg/Kg 1.76 mg/Kg 1.29 mg/Kg	DUP06-SA5B-QC-121510 SL-027-SA5B-SB-4.0-5.0 SL-027-SA5B-SB-8.0-9.0 SL-262-SA5B-SS-0.0-0.5 SL-263-SA5B-SS-0.0-0.5 SL-264-SA5B-SS-0.0-0.5 SL-297-SA5B-SB-4.0-5.0 SL-297-SA5B-SB-7.0-8.0 SL-298-SA5B-SB-4.0-5.0 SL-298-SA5B-SB-8.0-10.0 SL-302-SA5B-SS-0.0-0.5 SL-303-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP06-SA5B-QC-121510(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SL-027-SA5B-SB-4.0-5.0(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-027-SA5B-SB-8.0-9.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-262-SA5B-SS-0.0-0.5(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-263-SA5B-SS-0.0-0.5(RES)	TIN	2.39 mg/Kg	2.39U mg/Kg
SL-264-SA5B-SS-0.0-0.5(RES)	TIN	2.85 mg/Kg	2.85U mg/Kg
SL-297-SA5B-SB-4.0-5.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-297-SA5B-SB-7.0-8.0(RES)	TIN	2.75 mg/Kg	2.75U mg/Kg
SL-298-SA5B-SB-4.0-5.0(RES)	TIN	2.91 mg/Kg	2.91U mg/Kg
SL-298-SA5B-SB-8.0-10.0(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SL-302-SA5B-SS-0.0-0.5(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SL-303-SA5B-SS-0.0-0.5(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01143AB271119A	1/17/2011 11:19:00 AM	HEXAVALENT CHROMIUM	0.22 mg/Kg	DUP06-SA5B-QC-121510 SL-027-SA5B-SB-4.0-5.0 SL-027-SA5B-SB-8.0-9.0 SL-262-SA5B-SS-0.0-0.5 SL-263-SA5B-SS-0.0-0.5 SL-264-SA5B-SS-0.0-0.5 SL-297-SA5B-SB-4.0-5.0 SL-297-SA5B-SB-7.0-8.0 SL-298-SA5B-SB-4.0-5.0 SL-298-SA5B-SB-9.0-10.0 SL-302-SA5B-SS-0.0-0.5 SL-303-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP06-SA5B-QC-121510(RES)	HEXAVALENT CHROMIUM	0.49 mg/Kg	0.49U mg/Kg
SL-027-SA5B-SB-4.0-5.0(RES)	HEXAVALENT CHROMIUM	0.39 mg/Kg	0.39U mg/Kg
SL-262-SA5B-SS-0.0-0.5(RES)	HEXAVALENT CHROMIUM	0.69 mg/Kg	0.69U mg/Kg
SL-263-SA5B-SS-0.0-0.5(RES)	HEXAVALENT CHROMIUM	0.34 mg/Kg	0.34U mg/Kg
SL-264-SA5B-SS-0.0-0.5(RES)	HEXAVALENT CHROMIUM	1.0 mg/Kg	1.0U mg/Kg
SL-297-SA5B-SB-4.0-5.0(RES)	HEXAVALENT CHROMIUM	0.62 mg/Kg	0.62U mg/Kg
SL-297-SA5B-SB-7.0-8.0(RES)	HEXAVALENT CHROMIUM	0.24 mg/Kg	0.24U mg/Kg
SL-298-SA5B-SB-4.0-5.0(RES)	HEXAVALENT CHROMIUM	0.55 mg/Kg	0.55U mg/Kg
SL-298-SA5B-SB-9.0-10.0(RES)	HEXAVALENT CHROMIUM	0.30 mg/Kg	0.30U mg/Kg
SL-302-SA5B-SS-0.0-0.5(RES)	HEXAVALENT CHROMIUM	1.1 mg/Kg	1.1U mg/Kg
SL-303-SA5B-SS-0.0-0.5(RES)	HEXAVALENT CHROMIUM	0.98 mg/Kg	0.98U mg/Kg

Method: 8260B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB18B211848A	12/16/2010 6:48:00 PM	CHLOROFORM METHYLENE CHLORIDE	0.37 ug/Kg 1.0 ug/Kg	SL-027-SA5B-SB-4.0-5.0 SL-027-SA5B-SB-8.0-9.0 SL-297-SA5B-SB-4.0-5.0 SL-297-SA5B-SB-7.0-8.0 SL-298-SA5B-SB-4.0-5.0 SL-298-SA5B-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-027-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.4 ug/Kg	4.6U ug/Kg
SL-027-SA5B-SB-8.0-9.0(RES)	METHYLENE CHLORIDE	0.95 ug/Kg	4.4U ug/Kg
SL-297-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.2 ug/Kg	4.2U ug/Kg
SL-297-SA5B-SB-7.0-8.0(RES)	METHYLENE CHLORIDE	1.3 ug/Kg	4.9U ug/Kg
SL-298-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.3 ug/Kg	4.7U ug/Kg
SL-298-SA5B-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.2 ug/Kg	4.6U ug/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWH35B261352	1/4/2011 1:52:00 PM	Butylbenzylphthalate	0.055 ug/L	EB03-SA5B-121510 EB15-SA5B-121510

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB03-SA5B-121510(RES)	Butylbenzylphthalate	0.060 ug/L	0.99U ug/L
EB15-SA5B-121510(RES)	Butylbenzylphthalate	0.066 ug/L	1.1U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-262-SA5B-SS-0.0-0.5MS (DUP06-SA5B-QC-121510 SL-027-SA5B-SB-4.0-5.0 SL-027-SA5B-SB-8.0-9.0 SL-262-SA5B-SS-0.0-0.5 SL-263-SA5B-SS-0.0-0.5 SL-264-SA5B-SS-0.0-0.5 SL-298-SA5B-SB-4.0-5.0 SL-298-SA5B-SB-9.0-10.0 SL-302-SA5B-SS-0.0-0.5 SL-303-SA5B-SS-0.0-0.5)	FLUORIDE	70	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)
SL-297-SA5B-SB-4.0-5.0MS (SL-297-SA5B-SB-4.0-5.0 SL-297-SA5B-SB-7.0-8.0)	FLUORIDE	60	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-262-SA5B-SS-0.0-0.5MSD (SL-262-SA5B-SS-0.0-0.5)	ENDRIN ALDEHYDE	-	-	10.00-148.00	43 (35.00)	ENDRIN ALDEHYDE	J(all detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-262-SA5B-SS-0.0-0.5MS SL-262-SA5B-SS-0.0-0.5MSD (SL-262-SA5B-SS-0.0-0.5)	2,4-DB DALAPON DICAMBA MCPA	184 87 178 298	- - 129 -	20.00-170.00 12.00-86.00 33.00-120.00 31.00-184.00	- - - 103 (50.00)	2,4-DB DALAPON DICAMBA MCPA	J(all detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-262-SA5B-SS-0.0-0.5MS SL-262-SA5B-SS-0.0-0.5MSD (DUP06-SA5B-QC-121510 SL-027-SA5B-SB-4.0-5.0 SL-027-SA5B-SB-8.0-9.0 SL-262-SA5B-SS-0.0-0.5 SL-263-SA5B-SS-0.0-0.5 SL-264-SA5B-SS-0.0-0.5 SL-297-SA5B-SB-4.0-5.0 SL-297-SA5B-SB-7.0-8.0 SL-298-SA5B-SB-4.0-5.0 SL-298-SA5B-SB-9.0-10.0 SL-302-SA5B-SS-0.0-0.5 SL-303-SA5B-SS-0.0-0.5)	ARSENIC CADMIUM CHROMIUM LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	197 158 163 189 130 131 141 170 321	205 155 146 193 138 131 142 170 250	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - -	ARSENIC CADMIUM CHROMIUM LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) Pb, Zn No Qual. >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-262-SA5B-SS-0.0-0.5MS SL-262-SA5B-SS-0.0-0.5MSD (DUP06-SA5B-QC-121510 SL-027-SA5B-SB-4.0-5.0 SL-027-SA5B-SB-8.0-9.0 SL-262-SA5B-SS-0.0-0.5 SL-263-SA5B-SS-0.0-0.5 SL-264-SA5B-SS-0.0-0.5 SL-297-SA5B-SB-4.0-5.0 SL-297-SA5B-SB-7.0-8.0 SL-298-SA5B-SB-4.0-5.0 SL-298-SA5B-SB-9.0-10.0 SL-302-SA5B-SS-0.0-0.5 SL-303-SA5B-SS-0.0-0.5)	ANTIMONY	45	55	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-262-SA5B-SS-0.0-0.5MS SL-262-SA5B-SS-0.0-0.5MSD (DUP06-SA5B-QC-121510 SL-027-SA5B-SB-4.0-5.0 SL-027-SA5B-SB-8.0-9.0 SL-262-SA5B-SS-0.0-0.5 SL-263-SA5B-SS-0.0-0.5 SL-264-SA5B-SS-0.0-0.5 SL-297-SA5B-SB-4.0-5.0 SL-297-SA5B-SB-7.0-8.0 SL-298-SA5B-SB-4.0-5.0 SL-298-SA5B-SB-9.0-10.0 SL-302-SA5B-SS-0.0-0.5 SL-303-SA5B-SS-0.0-0.5)	SELENIUM	135	137	75.00-125.00	-	SELENIUM	J(all detects)
SL-262-SA5B-SS-0.0-0.5MS SL-262-SA5B-SS-0.0-0.5MSD (DUP06-SA5B-QC-121510 SL-027-SA5B-SB-4.0-5.0 SL-027-SA5B-SB-8.0-9.0 SL-262-SA5B-SS-0.0-0.5 SL-263-SA5B-SS-0.0-0.5 SL-264-SA5B-SS-0.0-0.5 SL-297-SA5B-SB-4.0-5.0 SL-297-SA5B-SB-7.0-8.0 SL-298-SA5B-SB-4.0-5.0 SL-298-SA5B-SB-9.0-10.0 SL-302-SA5B-SS-0.0-0.5 SL-303-SA5B-SS-0.0-0.5)	MOLYBDENUM	139	141	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-262-SA5B-SS-0.0-0.5MS SL-262-SA5B-SS-0.0-0.5MSD (DUP06-SA5B-QC-121510 SL-027-SA5B-SB-4.0-5.0 SL-027-SA5B-SB-8.0-9.0 SL-262-SA5B-SS-0.0-0.5 SL-263-SA5B-SS-0.0-0.5 SL-264-SA5B-SS-0.0-0.5 SL-297-SA5B-SB-4.0-5.0 SL-297-SA5B-SB-7.0-8.0 SL-298-SA5B-SB-4.0-5.0 SL-298-SA5B-SB-9.0-10.0 SL-302-SA5B-SS-0.0-0.5 SL-303-SA5B-SS-0.0-0.5)	BARIUM	319	318	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-262-SA5B-SS-0.0-0.5MS SL-262-SA5B-SS-0.0-0.5MSD (DUP06-SA5B-QC-121510 SL-027-SA5B-SB-4.0-5.0 SL-027-SA5B-SB-8.0-9.0 SL-262-SA5B-SS-0.0-0.5 SL-263-SA5B-SS-0.0-0.5 SL-264-SA5B-SS-0.0-0.5 SL-297-SA5B-SB-4.0-5.0 SL-297-SA5B-SB-7.0-8.0 SL-298-SA5B-SB-4.0-5.0 SL-298-SA5B-SB-9.0-10.0 SL-302-SA5B-SS-0.0-0.5 SL-303-SA5B-SS-0.0-0.5)	ALUMINUM	685	252	75.00-125.00	-	ALUMINUM	No Qual, >4x
SL-262-SA5B-SS-0.0-0.5MS SL-262-SA5B-SS-0.0-0.5MSD (DUP06-SA5B-QC-121510 SL-027-SA5B-SB-4.0-5.0 SL-027-SA5B-SB-8.0-9.0 SL-262-SA5B-SS-0.0-0.5 SL-263-SA5B-SS-0.0-0.5 SL-264-SA5B-SS-0.0-0.5 SL-297-SA5B-SB-4.0-5.0 SL-297-SA5B-SB-7.0-8.0 SL-298-SA5B-SB-4.0-5.0 SL-298-SA5B-SB-9.0-10.0 SL-302-SA5B-SS-0.0-0.5 SL-303-SA5B-SS-0.0-0.5)	CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS	- -1451 -400 4 25	-1 -448 -637 -11 -13	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS	No Qual, >4x
SL-262-SA5B-SS-0.0-0.5MSD (DUP06-SA5B-QC-121510 SL-027-SA5B-SB-4.0-5.0 SL-027-SA5B-SB-8.0-9.0 SL-262-SA5B-SS-0.0-0.5 SL-263-SA5B-SS-0.0-0.5 SL-264-SA5B-SS-0.0-0.5 SL-297-SA5B-SB-4.0-5.0 SL-297-SA5B-SB-7.0-8.0 SL-298-SA5B-SB-4.0-5.0 SL-298-SA5B-SB-9.0-10.0 SL-302-SA5B-SS-0.0-0.5 SL-303-SA5B-SS-0.0-0.5)	POTASSIUM TITANIUM	- -	69 30	75.00-125.00 75.00-125.00	- -	POTASSIUM TITANIUM	J(all detects) UJ(all non-detects) TI No Qual, >4x

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-262-SA5B-SS-0.0-0.5MSD (SL-262-SA5B-SS-0.0-0.5)	2,4-DINITROPHENOL 4-CHLOROANILINE ANILINE BENZOIC ACID	- - - -	- - - -	20.00-143.00 23.00-95.00 14.00-114.00 10.00-173.00	37 (30.00) 32 (30.00) 37 (30.00) 42 (30.00)	2,4-DINITROPHENOL 4-CHLOROANILINE ANILINE BENZOIC ACID	J(all detects)
SL-262-SA5B-SS-0.0-0.5MS SL-262-SA5B-SS-0.0-0.5MSD (SL-262-SA5B-SS-0.0-0.5)	BENZIDINE	0	15	35.00-141.00	200 (30.00)	BENZIDINE	J(all detects) R(all non-detects)
SL-262-SA5B-SS-0.0-0.5MS (SL-262-SA5B-SS-0.0-0.5)	2-METHYLNAPHTHALENE N-NITROSODIPHENYLAMINE	72 77	- -	76.00-114.00 86.00-145.00	- -	2-METHYLNAPHTHALENE N-NITROSODIPHENYLAMINE	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-262-SA5B-SS-0.0-0.5DUP (DUP06-SA5B-QC-121510 SL -027-SA5B-SB-4.0-5.0 SL -027-SA5B-SB-8.0-9.0 SL -262-SA5B-SS-0.0-0.5 SL -263-SA5B-SS-0.0-0.5 SL -264-SA5B-SS-0.0-0.5 SL -298-SA5B-SB-4.0-5.0 SL -298-SA5B-SB-9.0-10.0 SL -302-SA5B-SS-0.0-0.5 SL -303-SA5B-SS-0.0-0.5)	FLUORIDE	200	20.00	No Qual OK by difference

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-262-SA5B-SS-0.0-0.5DUP (DUP06-SA5B-QC-121510 SL -027-SA5B-SB-4.0-5.0 SL -027-SA5B-SB-8.0-9.0 SL -262-SA5B-SS-0.0-0.5 SL -263-SA5B-SS-0.0-0.5 SL -264-SA5B-SS-0.0-0.5 SL -297-SA5B-SB-4.0-5.0 SL -297-SA5B-SB-7.0-8.0 SL -298-SA5B-SB-4.0-5.0 SL -298-SA5B-SB-9.0-10.0 SL -302-SA5B-SS-0.0-0.5 SL -303-SA5B-SS-0.0-0.5)	Zirconium	29	20.00	No Qual OK by difference

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-262-SA5B-SS-0.0-0.5DUP (DUP06-SA5B-QC-121510 SL -027-SA5B-SB-4.0-5.0 SL -027-SA5B-SB-8.0-9.0 SL -262-SA5B-SS-0.0-0.5 SL -263-SA5B-SS-0.0-0.5 SL -264-SA5B-SS-0.0-0.5 SL -297-SA5B-SB-4.0-5.0 SL -297-SA5B-SB-7.0-8.0 SL -298-SA5B-SB-4.0-5.0 SL -298-SA5B-SB-9.0-10.0 SL -302-SA5B-SS-0.0-0.5 SL -303-SA5B-SS-0.0-0.5)	ANTIMONY	44	20.00	No Qual OK by difference

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-262-SA5B-SS-0.0-0.5DUP (DUP06-SA5B-QC-121510 SL-027-SA5B-SB-4.0-5.0 SL-027-SA5B-SB-8.0-9.0 SL-262-SA5B-SS-0.0-0.5 SL-263-SA5B-SS-0.0-0.5 SL-264-SA5B-SS-0.0-0.5 SL-297-SA5B-SB-4.0-5.0 SL-297-SA5B-SB-7.0-8.0 SL-298-SA5B-SB-4.0-5.0 SL-298-SA5B-SB-9.0-10.0 SL-302-SA5B-SS-0.0-0.5 SL-303-SA5B-SS-0.0-0.5)	HEXAVALENT CHROMIUM	34	20.00	No Qual OK by difference

Method: 7471A

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-262-SA5B-SS-0.0-0.5DUP (DUP06-SA5B-QC-121510 SL-027-SA5B-SB-4.0-5.0 SL-027-SA5B-SB-8.0-9.0 SL-262-SA5B-SS-0.0-0.5 SL-263-SA5B-SS-0.0-0.5 SL-264-SA5B-SS-0.0-0.5 SL-297-SA5B-SB-4.0-5.0 SL-297-SA5B-SB-7.0-8.0 SL-298-SA5B-SB-4.0-5.0 SL-298-SA5B-SB-9.0-10.0 SL-302-SA5B-SS-0.0-0.5 SL-303-SA5B-SS-0.0-0.5)	MERCURY	51	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03552AQ240840A P03552AY240822A (EB03-SA5B-121510 EB15-SA5B-121510)	Aroclor 5442	44	44	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Method: 8270C SIM

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WHLCSQ261426 P0WHLCSY261500 (EB03-SA5B-121510 EB15-SA5B-121510)	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE BENZO(K)FLUORANTHENE CHRYSENE DIBENZO(A,H)ANTHRACENE Diethylphthalate Dimethylphthalate FLUORANTHENE N-NITROSODIMETHYLAMINE	- 71 - 75 - 67 67 - 59	69 68 71 - 69 65 65 67 58	71.00-117.00 75.00-115.00 72.00-122.00 76.00-116.00 71.00-125.00 70.00-130.00 70.00-130.00 75.00-116.00 70.00-130.00	- - - - - - - - -	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE BENZO(K)FLUORANTHENE CHRYSENE DIBENZO(A,H)ANTHRACENE Diethylphthalate Dimethylphthalate FLUORANTHENE N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Method: 8270C

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P4WMLCSQ260623 P4WMLCSY260649 (EB03-SA5B-121510 EB15-SA5B-121510)	1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 4-CHLOROANILINE ANILINE BENZIDINE BENZOIC ACID HEXACHLOROCYCLOPENTADI	62 64 - - - - -	- - - - - - -	83.00-110.00 65.00-113.00 42.00-124.00 49.00-101.00 20.00-109.00 10.00-69.00 10.00-118.00	- - 40 (30.00) 39 (30.00) 44 (30.00) 67 (30.00) 40 (30.00)	1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 4-CHLOROANILINE ANILINE BENZIDINE BENZOIC ACID HEXACHLOROCYCLOPENTAD	J(all detects) UJ(all non-detects)

Method: 8015M

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03510AQ3321635A (SL-027-SA5B-SB-4.0-5.0 SL-027-SA5B-SB-8.0-9.0 SL-297-SA5B-SB-4.0-5.0 SL-297-SA5B-SB-7.0-8.0 SL-298-SA5B-SB-4.0-5.0 SL-298-SA5B-SB-9.0-10.0)	Propylene glycol	72	-	75.00-125.00	-	Propylene glycol	J (all detects) UJ (all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03556AQ240109A (DUP06 -SA5B-QC-121510 SL -027-SA5B-SB-4.0-5.0 SL -027-SA5B-SB-8.0-9.0 SL -262-SA5B-SS-0.0-0.5 SL -263-SA5B-SS-0.0-0.5 SL -264-SA5B-SS-0.0-0.5 SL -297-SA5B-SB-4.0-5.0 SL -297-SA5B-SB-7.0-8.0 SL -298-SA5B-SB-4.0-5.0 SL -298-SA5B-SB-9.0-10.0 SL -302-SA5B-SS-0.0-0.5 SL -303-SA5B-SS-0.0-0.5)	METHOXYCHLOR	131	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03563AQ241350A P03563AY241332A (DUP06 -SA5B-QC-121510 SL -027-SA5B-SB-4.0-5.0 SL -027-SA5B-SB-8.0-9.0 SL -262-SA5B-SS-0.0-0.5 SL -263-SA5B-SS-0.0-0.5 SL -264-SA5B-SS-0.0-0.5 SL -297-SA5B-SB-4.0-5.0 SL -297-SA5B-SB-7.0-8.0 SL -298-SA5B-SB-4.0-5.0 SL -298-SA5B-SB-9.0-10.0 SL -302-SA5B-SS-0.0-0.5 SL -303-SA5B-SS-0.0-0.5)	Aroclor 5442	62	73	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03575AQ241324A (DUP06 -SA5B-QC-121510 SL -027-SA5B-SB-4.0-5.0 SL -027-SA5B-SB-8.0-9.0 SL -262-SA5B-SS-0.0-0.5 SL -263-SA5B-SS-0.0-0.5 SL -264-SA5B-SS-0.0-0.5 SL -297-SA5B-SB-4.0-5.0 SL -298-SA5B-SB-4.0-5.0 SL -298-SA5B-SB-9.0-10.0 SL -302-SA5B-SS-0.0-0.5 SL -303-SA5B-SS-0.0-0.5)	2,4-D	144	-	40.00-140.00	-	2,4-D	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: PrepDE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03575AQ241324A (DUP06-SA5B-QC-121510 SL -027-SA5B-SB-4.0-5.0 SL -027-SA5B-SB-8.0-9.0 SL -262-SA5B-SS-0.0-0.5 SL -263-SA5B-SS-0.0-0.5 SL -264-SA5B-SS-0.0-0.5 SL -297-SA5B-SB-4.0-5.0 SL -298-SA5B-SB-4.0-5.0 SL -298-SA5B-SB-9.0-10.0 SL -302-SA5B-SS-0.0-0.5 SL -303-SA5B-SS-0.0-0.5)	DINOSEB	8	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)
P03614AQ241108A (SL-297-SA5B-SB-7.0-8.0)	DICHLOROPROP	157	-	60.00-141.00	-	DICHLOROPROP	J(all detects)
P03614AQ241108A (SL-297-SA5B-SB-7.0-8.0)	DINOSEB	7	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M

Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB15-SA5B-121510	TRIFLUOROTOLUENE (FID)	75	77.00-119.00	All Target Analytes	J (all detects) UJ (all non-detects)

Method: 8015M

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-297-SA5B-SB-4.0-5.0	TETRAMETHYLENE GLYCOL	138	29.00-137.00	All Target Analytes	J(all detects)

Method: 8015M

Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
TB-121510	TRIFLUOROTOLUENE (FID)	72	77.00-119.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8081A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-298-SA5B-SB-4.0-5.0	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
	TETRACHLORO-M-XYLENE	0	50.00-130.00		
SL-302-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	138	20.00-120.00	All Target Analytes	J(all detects)

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-263-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	121	45.00-120.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA5B-SS-0.0-0.5	DUP06-SA5B-QC-121510			
MOISTURE	5.2	5.0	4		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA5B-SS-0.0-0.5	DUP06-SA5B-QC-121510			
FLUORIDE	1.8	1.4	25	50.00	No Qualifiers Applied

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA5B-SS-0.0-0.5	DUP06-SA5B-QC-121510			
ALUMINUM	18100	17000	6	50.00	No Qualifiers Applied
CALCIUM	3630	3240	11	50.00	
IRON	24600	23500	5	50.00	
LITHIUM	27.7	24.1	14	50.00	
MAGNESIUM	6350	5050	23	50.00	
MANGANESE	334	287	15	50.00	
PHOSPHORUS	481	378	24	50.00	
POTASSIUM	3390	2960	14	50.00	
SODIUM	120	114	5	50.00	
STRONTIUM	20.2	19.5	4	50.00	
TIN	2.65	2.59	2	50.00	
TITANIUM	1580	1360	15	50.00	
Zirconium	3.57	3.29	8	50.00	

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA5B-SS-0.0-0.5	DUP06-SA5B-QC-121510			
ANTIMONY	0.282	0.216	27	50.00	No Qualifiers Applied
ARSENIC	6.06	8.73	36	50.00	
BARIUM	104	145	33	50.00	
BERYLLIUM	0.633	0.793	22	50.00	
CADMIUM	0.175	0.209	18	50.00	
CHROMIUM	24.3	30.9	24	50.00	
COBALT	6.55	8.88	30	50.00	
COPPER	11.1	13.6	20	50.00	
LEAD	13.6	16.1	17	50.00	
MOLYBDENUM	0.802	0.885	10	50.00	
NICKEL	15.1	19.5	25	50.00	
SELENIUM	0.189	0.205	8	50.00	
SILVER	0.0970	0.0779	22	50.00	
THALLIUM	0.291	0.396	31	50.00	
VANADIUM	46.5	59.2	24	50.00	
ZINC	81.9	112	31	50.00	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA5B-SS-0.0-0.5	DUP06-SA5B-QC-121510			
HEXAVALENT CHROMIUM	0.69	0.49	34	50.00	No Qualifiers Applied

Method: 7471A

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA5B-SS-0.0-0.5	DUP06-SA5B-QC-121510			
MERCURY	0.0044	0.0331	153	50.00	J(all detects)

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA5B-SS-0.0-0.5	DUP06-SA5B-QC-121510			
AROCOR 1254	4.4	1.4	103	50.00	J(all detects)
AROCOR 1260	2.3	1.3	56	50.00	
Aroclor 5460	4.4	2.3	63	50.00	

Method: 8151A

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA5B-SS-0.0-0.5	DUP06-SA5B-QC-121510			
MCPA	260 U	790	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA5B-SS-0.0-0.5	DUP06-SA5B-QC-121510			
BIS(2-ETHYLHEXYL)PHTHALATE	13	12	8	50.00	No Qualifiers Applied
CHRYSENE	8.7	14	47	50.00	
DIBENZO(A,H)ANTHRACENE	1.3	2.1	47	50.00	
1-METHYLNAPHTHALENE	1.7	3.4	67	50.00	J(all detects) UJ(all non-detects)
2-METHYLNAPHTHALENE	2.2	4.1	60	50.00	
ANTHRACENE	0.51	0.90	55	50.00	
BENZO(A)ANTHRACENE	3.9	8.4	73	50.00	
BENZO(A)PYRENE	5.0	9.9	66	50.00	
BENZO(B)FLUORANTHENE	5.9	14	81	50.00	
BENZO(G,H,I)PERYLENE	4.5	7.5	50	50.00	
BENZO(K)FLUORANTHENE	2.6	5.0	63	50.00	
Di-n-octylphthalate	19 U	7.0	200	50.00	
FLUORANTHENE	2.8	7.1	87	50.00	
INDENO(1,2,3-CD)PYRENE	2.6	4.9	61	50.00	
NAPHTHALENE	1.5	2.8	60	50.00	
PHENANTHRENE	3.4	7.4	74	50.00	
PYRENE	4.5	9.1	68	50.00	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA5B-SS-0.0- 0.5	DUP06-SA5B-QC- 121510			
PH	6.85	6.93	1	50.00	No Qualifiers Applied

Method: ASTM D1498

Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA5B-SS-0.0- 0.5	DUP06-SA5B-QC- 121510			
Oxidation Reduction Potential	403	400	1		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB03-SA5B-121510	LEAD	J	0.00012	0.0010	PQL	mg/L	J (all detects)

Method: 8081A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB03-SA5B-121510	4,4'-DDE	J	0.016	0.020	PQL	ug/L	J (all detects)
EB15-SA5B-121510	4,4'-DDE	J	0.0099	0.021	PQL	ug/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB03-SA5B-121510	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.15	0.99	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.060	0.99	PQL	ug/L	
	Diethylphthalate	J	0.13	0.99	PQL	ug/L	
	Di-n-butylphthalate	J	0.33	0.99	PQL	ug/L	
	Di-n-octylphthalate	J	0.079	0.99	PQL	ug/L	
	NAPHTHALENE	J	0.036	0.050	PQL	ug/L	
EB15-SA5B-121510	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.19	1.1	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.066	1.1	PQL	ug/L	
	Diethylphthalate	J	0.12	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.18	1.1	PQL	ug/L	
	Di-n-octylphthalate	J	0.088	1.1	PQL	ug/L	
	NAPHTHALENE	J	0.030	0.057	PQL	ug/L	

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA5B-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	29.9	39.9	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA5B-SB-8.0-9.0	Nitrate-NO3	J	0.95	1.6	PQL	mg/Kg	J (all detects)
SL-263-SA5B-SS-0.0-0.5	FLUORIDE	J	1.0	1.1	PQL	mg/Kg	J (all detects)
SL-297-SA5B-SB-4.0-5.0	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)
SL-297-SA5B-SB-7.0-8.0	Nitrate-NO3	J	1.0	1.8	PQL	mg/Kg	J (all detects)
SL-298-SA5B-SB-4.0-5.0	Nitrate-NO3	J	1.6	1.7	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP06-SA5B-QC-121510	TIN	J	2.59	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.29	5.11	PQL	mg/Kg	
SL-027-SA5B-SB-4.0-5.0	TIN	J	2.74	11.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.41	5.92	PQL	mg/Kg	
SL-027-SA5B-SB-8.0-9.0	TIN	J	2.50	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.83	5.28	PQL	mg/Kg	
SL-262-SA5B-SS-0.0-0.5	TIN	J	2.65	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.57	5.12	PQL	mg/Kg	
SL-263-SA5B-SS-0.0-0.5	TIN	J	2.39	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.27	5.18	PQL	mg/Kg	
SL-264-SA5B-SS-0.0-0.5	SODIUM	J	90.8	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.85	10.5	PQL	mg/Kg	
	Zirconium	J	2.80	5.25	PQL	mg/Kg	
SL-297-SA5B-SB-4.0-5.0	TIN	J	2.73	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.78	5.59	PQL	mg/Kg	
SL-297-SA5B-SB-7.0-8.0	TIN	J	2.75	11.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.58	5.88	PQL	mg/Kg	
SL-298-SA5B-SB-4.0-5.0	TIN	J	2.91	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.17	5.56	PQL	mg/Kg	
SL-298-SA5B-SB-9.0-10.0	SODIUM	J	82.2	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.51	10.6	PQL	mg/Kg	
	Zirconium	J	1.68	5.32	PQL	mg/Kg	
SL-302-SA5B-SS-0.0-0.5	TIN	J	2.51	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.22	5.57	PQL	mg/Kg	
SL-303-SA5B-SS-0.0-0.5	TIN	J	2.77	11.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.92	5.78	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP06-SA5B-QC-121510	SELENIUM	J	0.205	0.409	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0779	0.102	PQL	mg/Kg	
SL-027-SA5B-SB-4.0-5.0	ANTIMONY	J	0.114	0.235	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0695	0.469	PQL	mg/Kg	
	SILVER	J	0.0150	0.117	PQL	mg/Kg	
SL-027-SA5B-SB-8.0-9.0	ANTIMONY	J	0.0942	0.217	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0432	0.109	PQL	mg/Kg	
	SELENIUM	J	0.203	0.435	PQL	mg/Kg	
	SILVER	J	0.0296	0.109	PQL	mg/Kg	
SL-262-SA5B-SS-0.0-0.5	SELENIUM	J	0.189	0.414	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0970	0.103	PQL	mg/Kg	
SL-263-SA5B-SS-0.0-0.5	SELENIUM	J	0.195	0.422	PQL	mg/Kg	J (all detects)
SL-264-SA5B-SS-0.0-0.5	SELENIUM	J	0.167	0.420	PQL	mg/Kg	J (all detects)
SL-297-SA5B-SB-4.0-5.0	SELENIUM	J	0.295	0.452	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0596	0.113	PQL	mg/Kg	
SL-297-SA5B-SB-7.0-8.0	ANTIMONY	J	0.196	0.231	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.147	0.461	PQL	mg/Kg	
	SILVER	J	0.0760	0.115	PQL	mg/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-298-SA5B-SB-4.0-5.0	ANTIMONY SELENIUM SILVER	J	0.109	0.225	PQL	mg/Kg	J (all detects)
		J	0.138	0.449	PQL	mg/Kg	
		J	0.0643	0.112	PQL	mg/Kg	
SL-298-SA5B-SB-9.0-10.0	SELENIUM SILVER	J	0.181	0.421	PQL	mg/Kg	J (all detects)
		J	0.0139	0.105	PQL	mg/Kg	
SL-302-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM	J	0.153	0.221	PQL	mg/Kg	J (all detects)
		J	0.141	0.442	PQL	mg/Kg	
SL-303-SA5B-SS-0.0-0.5	SELENIUM SILVER	J	0.197	0.463	PQL	mg/Kg	J (all detects)
		J	0.0687	0.116	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP06-SA5B-QC-121510	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-027-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.39	1.2	PQL	mg/Kg	J (all detects)
SL-262-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.69	1.1	PQL	mg/Kg	J (all detects)
SL-263-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.34	1.1	PQL	mg/Kg	J (all detects)
SL-264-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	1.0	1.1	PQL	mg/Kg	J (all detects)
SL-297-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.62	1.2	PQL	mg/Kg	J (all detects)
SL-297-SA5B-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.24	1.2	PQL	mg/Kg	J (all detects)
SL-298-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.55	1.1	PQL	mg/Kg	J (all detects)
SL-298-SA5B-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.30	1.1	PQL	mg/Kg	J (all detects)
SL-303-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.98	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP06-SA5B-QC-121510	MERCURY	J	0.0331	0.100	PQL	mg/Kg	J (all detects)
SL-027-SA5B-SB-8.0-9.0	MERCURY	J	0.0224	0.108	PQL	mg/Kg	J (all detects)
SL-262-SA5B-SS-0.0-0.5	MERCURY	J	0.0044	0.0976	PQL	mg/Kg	J (all detects)
SL-263-SA5B-SS-0.0-0.5	MERCURY	J	0.0033	0.104	PQL	mg/Kg	J (all detects)
SL-297-SA5B-SB-7.0-8.0	MERCURY	J	0.0033	0.111	PQL	mg/Kg	J (all detects)
SL-303-SA5B-SS-0.0-0.5	MERCURY	J	0.0391	0.108	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA5B-SB-4.0-5.0	METHANOL	J	170	600	PQL	ug/Kg	J (all detects)
SL-027-SA5B-SB-8.0-9.0	METHANOL	J	270	550	PQL	ug/Kg	J (all detects)
SL-297-SA5B-SB-4.0-5.0	METHANOL	J	170	580	PQL	ug/Kg	J (all detects)
SL-297-SA5B-SB-7.0-8.0	METHANOL	J	510	600	PQL	ug/Kg	J (all detects)
SL-298-SA5B-SB-9.0-10.0	METHANOL	J	290	530	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-298-SA5B-SB-4.0-5.0	EFH (C15-C20)	J	1.0	1.4	PQL	mg/Kg	J (all detects)
SL-298-SA5B-SB-9.0-10.0	EFH (C21-C30)	J	0.46	1.3	PQL	mg/Kg	J (all detects)
	EFH (C30-C40)	J	0.59	1.3	PQL	mg/Kg	

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA5B-SB-4.0-5.0	4,4'-DDE	J	0.28	0.41	PQL	ug/Kg	J (all detects)
SL-027-SA5B-SB-8.0-9.0	ENDRIN KETONE	J	0.11	0.37	PQL	ug/Kg	J (all detects)
SL-297-SA5B-SB-4.0-5.0	4,4'-DDD	J	0.19	0.39	PQL	ug/Kg	J (all detects)
	4,4'-DDE	J	0.23	0.39	PQL	ug/Kg	
SL-297-SA5B-SB-7.0-8.0	4,4'-DDE	J	0.16	0.41	PQL	ug/Kg	J (all detects)
SL-298-SA5B-SB-4.0-5.0	4,4'-DDE	J	0.19	0.39	PQL	ug/Kg	J (all detects)
SL-298-SA5B-SB-9.0-10.0	MIREX	J	0.097	0.36	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP06-SA5B-QC-121510	AROCLOR 1254	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.3	1.8	PQL	ug/Kg	
	Aroclor 5460	J	2.3	3.5	PQL	ug/Kg	
SL-264-SA5B-SS-0.0-0.5	AROCLOR 1248	J	0.73	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1254	J	1.1	1.8	PQL	ug/Kg	
	AROCLOR 1260	J	0.61	1.8	PQL	ug/Kg	
	Aroclor 5460	J	1.6	3.5	PQL	ug/Kg	
SL-303-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.4	2.0	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.5	3.9	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA5B-SB-4.0-5.0	2,4-DB	J	1.4	2.0	PQL	ug/Kg	J (all detects)
SL-263-SA5B-SS-0.0-0.5	DICAMBA	J	0.58	1.3	PQL	ug/Kg	J (all detects)
SL-264-SA5B-SS-0.0-0.5	DICAMBA	J	0.54	1.3	PQL	ug/Kg	J (all detects)
SL-297-SA5B-SB-4.0-5.0	MCPA	J	220	290	PQL	ug/Kg	J (all detects)
	MCPA	J	180	290	PQL	ug/Kg	J (all detects)
SL-298-SA5B-SB-4.0-5.0	2,4-D	J	2.6	4.1	PQL	ug/Kg	J (all detects)
SL-298-SA5B-SB-9.0-10.0	2,4-D	J	2.6	3.8	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA5B-SB-4.0-5.0	2-BUTANONE (MEK)	J	7.7	9.1	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.4	4.6	PQL	ug/Kg	J (all detects)
SL-027-SA5B-SB-8.0-9.0	2-BUTANONE (MEK)	J	2.7	8.8	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.95	4.4	PQL	ug/Kg	J (all detects)
SL-297-SA5B-SB-4.0-5.0	2-BUTANONE (MEK)	J	3.4	8.3	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.2	4.2	PQL	ug/Kg	J (all detects)
SL-297-SA5B-SB-7.0-8.0	2-BUTANONE (MEK)	J	6.1	9.8	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.3	4.9	PQL	ug/Kg	J (all detects)
SL-298-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.3	4.7	PQL	ug/Kg	J (all detects)
SL-298-SA5B-SB-9.0-10.0	2-BUTANONE (MEK)	J	3.5	9.2	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.2	4.6	PQL	ug/Kg	J (all detects)

Method: 8260B SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-297-SA5B-SB-4.0-5.0	1,4-DIOXANE	J	5.2	14	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-263-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	28	180	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	45	180	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	150	360	PQL	ug/Kg	
	Butylbenzylphthalate	J	27	180	PQL	ug/Kg	
	CHRYSENE	J	49	180	PQL	ug/Kg	
	PHENANTHRENE	J	24	180	PQL	ug/Kg	
	PYRENE	J	65	180	PQL	ug/Kg	
SL-302-SA5B-SS-0.0-0.5	PYRENE	J	51	190	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE041

Laboratory: LL

EDD Filename: DE041_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP06-SA5B-QC-121510	ANTHRACENE	J	0.90	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.0	19	PQL	ug/Kg	
SL-027-SA5B-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.2	22	PQL	ug/Kg	J (all detects)
SL-027-SA5B-SB-8.0-9.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	20	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.0	1.8	PQL	ug/Kg	
	Di-n-octylphthalate	J	9.2	20	PQL	ug/Kg	
	PHENANTHRENE	J	0.94	1.8	PQL	ug/Kg	
	PYRENE	J	1.4	1.8	PQL	ug/Kg	
SL-262-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.51	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	19	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.3	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.8	PQL	ug/Kg	
SL-263-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	0.40	1.8	PQL	ug/Kg	J (all detects)
	FLUORENE	J	1.1	1.8	PQL	ug/Kg	
SL-264-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.93	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	19	PQL	ug/Kg	
	Butylbenzylphthalate	J	6.4	19	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	
	Di-n-octylphthalate	J	12	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.7	1.8	PQL	ug/Kg	
SL-297-SA5B-SB-4.0-5.0	CHRYSENE	J	0.39	1.9	PQL	ug/Kg	J (all detects)
SL-297-SA5B-SB-7.0-8.0	CHRYSENE	J	0.89	2.0	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	1.5	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	0.85	2.0	PQL	ug/Kg	
SL-298-SA5B-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.6	20	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.56	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.9	PQL	ug/Kg	
	PYRENE	J	0.97	1.9	PQL	ug/Kg	
SL-302-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.4	1.9	PQL	ug/Kg	
	ACENAPHTHYLENE	J	1.6	1.9	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.92	1.9	PQL	ug/Kg	
	Di-n-octylphthalate	J	9.8	20	PQL	ug/Kg	
	FLUORENE	J	0.91	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.7	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	1.3	1.9	PQL	ug/Kg	
SL-303-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	4.5	9.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	55	110	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	4.6	9.7	PQL	ug/Kg	
	PHENANTHRENE	J	5.9	9.7	PQL	ug/Kg	
	PYRENE	J	5.2	9.7	PQL	ug/Kg	

Method: 8315A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-297-SA5B-SB-4.0-5.0	FORMALDEHYDE	J	920	1700	PQL	ug/Kg	J (all detects)

LDC #: 25337K4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE041

ADR

Laboratory: Lancaster Laboratories

Date: 5-5-11

Page: 1 of 1

Reviewer: CC

2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	=	
III.	Calibration	=	
IV.	Blanks	SW	ICB/CCB hits - No Qual
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Pb, Mg, Mn, P, Ti, V, Zn) > 4x
VII.	Duplicate Sample Analysis	N	Dup (Sb, Hg, Zr) < 5x RL
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba-11%, Pb-15%, Zn-12% - J/UT
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	SW	EB=9, 10

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

* ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-303-SA5B-SS-0.0-0.5	11	SL-298-SA5B-SB-4.0-5.0	21		31	
2	SL-262-SA5B-SS-0.0-0.5	12	SL-198-SA5B-SB-9.0-10.0	22		32	
3	SL-302-SA5B-SS-0.0-0.5	13	SL-297-SA5B-SB-4.0-5.0	23		33	
4	DUP06-SA5B-QC-121510	14	SL-297-SA5B-SB-7.0-8.0	24		34	
5	SL-263-SA5B-SS-0.0-0.5	15	SL-262-SA5B-SS-0.0-0.5MS	25		35	
6	SL-264-SA5B-SS-0.0-0.5	16	SL-262-SA5B-SS-0.0-0.5MSD	26		36	
7	SL-027-SA5B-SB-4.0-5.0	17	SL-262-SA5B-SS-0.0-0.5DUP	27		37	
8	SL-027-SA5B-SB-8.0-9.0	18		28		38	
9	EB03-SA5B-121510 W	19		29		39	
10	EB15-SA5B-121510 W	20		30		40	

Notes: _____

Were field blanks identified in this SDG?

Were field blanks identified in this SDG?

Were target analytes detected in the field blanks?

Associated sample units: mg/Kg

Soil factor applied	100
12/15/10	

e: (circle one) Field Blank / Rinsate / Other:

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
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[illegible]

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

SAMPLE DELIVERY GROUP

DE042

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	3050B	6010B	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	3050B	6020	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	3060A	7199	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	3550B	8081A	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	3550B	8082	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	3550B	8151A	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	3550B	8270C	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	3550B	8270C SIM	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	Gen Prep	9045M	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	METHOD	300.0	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	METHOD	314.0	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	METHOD	7471A	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	3050B	6010B	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	3050B	6020	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	3060A	7199	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	3550B	8081A	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	3550B	8082	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	3550B	8151A	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	3550B	8270C	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	3550B	8270C SIM	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	Gen Prep	9045M	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	METHOD	300.0	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	METHOD	314.0	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	METHOD	7471A	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	3050B	6010B	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	3050B	6020	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	3060A	7199	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	3550B	8081A	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	3550B	8082	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	3550B	8151A	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	3550B	8270C	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	3550B	8270C SIM	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	Gen Prep	9045M	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	METHOD	300.0	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	METHOD	314.0	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	METHOD	7471A	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5DUP	P167477D270821A	DUP	METHOD	300.0	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5MS	P167477R270836A	MS	METHOD	300.0	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	3050B	6010B	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	3050B	6020	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	3060A	7199	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	3550B	8081A	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	3550B	8082	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	3550B	8151A	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	3550B	8270C	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	3550B	8270C SIM	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	Gen Prep	9045M	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	METHOD	300.0	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	METHOD	314.0	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	METHOD	7471A	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	3050B	6010B	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	3060A	7199	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	3550B	8081A	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	3550B	8082	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	3550B	8151A	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	3550B	8270C	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	3550B	8270C SIM	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	Gen Prep	9045M	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	METHOD	300.0	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	METHOD	314.0	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	METHOD	7471A	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	3050B	6010B	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	3050B	6020	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	3060A	7199	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	3550B	8081A	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	3550B	8082	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	3550B	8151A	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	3550B	8270C	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	3550B	8270C SIM	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	Gen Prep	9045M	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	METHOD	300.0	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	METHOD	314.0	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	METHOD	7471A	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	3050B	6010B	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	3050B	6020	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	3060A	7199	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	3550B	8081A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	3550B	8082	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	3550B	8151A	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	3550B	8270C	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	3550B	8270C SIM	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	Gen Prep	9045M	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	METHOD	300.0	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	METHOD	314.0	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	METHOD	7471A	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	3050B	6010B	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	3050B	6020	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	3060A	7199	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	3550B	8081A	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	3550B	8082	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	3550B	8151A	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	3550B	8270C	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	3550B	8270C SIM	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	Gen Prep	9045M	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	METHOD	300.0	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	METHOD	314.0	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	METHOD	7471A	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	3050B	6010B	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	3050B	6020	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	3060A	7199	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	3550B	8081A	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	3550B	8082	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	3550B	8151A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	3550B	8270C	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	3550B	8270C SIM	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	Gen Prep	9045M	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	METHOD	300.0	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	METHOD	314.0	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	METHOD	7471A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	3050B	6010B	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	3050B	6020	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	3060A	7199	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	3550B	8081A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	3550B	8082	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	3550B	8151A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	3550B	8270C	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	3550B	8270C SIM	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	Gen Prep	9045M	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	METHOD	300.0	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	METHOD	314.0	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	METHOD	7471A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	3050B	6010B	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	3050B	6020	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	3060A	7199	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	3550B	8081A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	3550B	8082	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	3550B	8151A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	3550B	8270C	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	METHOD	300.0	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	METHOD	314.0	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	METHOD	7471A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167483	MSD	3050B	6010B	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167483	MSD	3050B	6020	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167483	MSD	3550B	8081A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167483	MSD	3550B	8082	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167483	MSD	3550B	8151A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167483	MSD	3550B	8270C	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167483	MSD	3550B	8270C SIM	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167483	MSD	METHOD	7471A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5DUP	6167484	DUP	3050B	6010B	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5DUP	6167484	DUP	3050B	6020	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5DUP	6167484	DUP	3060A	7199	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5DUP	6167484	DUP	Gen Prep	9045M	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5DUP	6167484	DUP	METHOD	300.0	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5DUP	6167484	DUP	METHOD	314.0	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5DUP	6167484	DUP	METHOD	7471A	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	3050B	6010B	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	3050B	6020	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	3060A	7199	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	3550B	8081A	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	3550B	8082	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	3550B	8151A	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	3550B	8270C	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	Gen Prep	9045M	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	METHOD	300.0	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	METHOD	314.0	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	METHOD	6850	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	METHOD	7471A	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	3050B	6010B	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	3050B	6020	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	3060A	7199	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	3550B	8081A	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	3550B	8082	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	3550B	8151A	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	3550B	8270C	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	3550B	8270C SIM	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	Gen Prep	9045M	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	METHOD	300.0	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	METHOD	314.0	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	METHOD	7471A	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	3050B	6010B	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	3050B	6020	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	3060A	7199	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	3550B	8081A	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	3550B	8082	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	3550B	8151A	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	3550B	8270C	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	3550B	8270C SIM	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	Gen Prep	9045M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	METHOD	300.0	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	METHOD	314.0	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	METHOD	7471A	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	3050B	6010B	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	3050B	6020	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	3060A	7199	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	3550B	8081A	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	3550B	8082	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	3550B	8151A	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	3550B	8270C	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	3550B	8270C SIM	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	Gen Prep	9045M	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	METHOD	300.0	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	METHOD	314.0	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	METHOD	7471A	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	3050B	6010B	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	3050B	6020	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	3060A	7199	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	3550B	8081A	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	3550B	8082	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	3550B	8151A	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	3550B	8270C	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	3550B	8270C SIM	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	Gen Prep	9045M	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	METHOD	300.0	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	METHOD	7471A	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	3050B	6010B	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	3050B	6020	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	3060A	7199	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	3550B	8081A	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	3550B	8082	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	3550B	8151A	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	3550B	8270C	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	3550B	8270C SIM	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	Gen Prep	9045M	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	METHOD	300.0	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	METHOD	314.0	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	METHOD	7471A	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	3050B	6010B	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	3050B	6020	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	3060A	7199	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	3550B	8081A	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	3550B	8082	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	3550B	8151A	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	3550B	8270C	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	3550B	8270C SIM	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	Gen Prep	9045M	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	METHOD	300.0	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	METHOD	314.0	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	METHOD	7471A	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	3050B	6020	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	3060A	7199	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	3550B	8081A	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	3550B	8082	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	3550B	8151A	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	3550B	8270C	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	3550B	8270C SIM	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	Gen Prep	9045M	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	METHOD	300.0	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	METHOD	314.0	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	METHOD	6850	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	METHOD	7471A	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5DUP	P167468D272251A	DUP	METHOD	314.0	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5DUP	P167468D291400A	DUP	Gen Prep	9045M	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5MSD	P167468M241548A	MSD	METHOD	6850	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5MS	P167468R241542A	MS	METHOD	6850	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5MS	P167468R272314A	MS	METHOD	314.0	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	3050B	6010B	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	3050B	6020	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	3060A	7199	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	3550B	8081A	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	3550B	8082	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	3550B	8151A	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	3550B	8270C	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	3550B	8270C SIM	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	Gen Prep	9045M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	METHOD	300.0	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	METHOD	314.0	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	METHOD	7471A	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	3050B	6010B	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	3050B	6020	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	3060A	7199	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	3550B	8081A	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	3550B	8082	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	3550B	8151A	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	3550B	8270C	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	3550B	8270C SIM	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	Gen Prep	9045M	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	METHOD	300.0	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	METHOD	314.0	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-172-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.95	J	0.85	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-178-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.6		1.0	MDL	1.3	PQL	mg/Kg	J	Q

Sample ID: SL-186-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:56:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.5		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-187-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-189-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-192-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.1		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-194-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-196-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.84	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-198-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-199-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-202-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SED-011-SIV-SD-0.0-0.5

Collected: 12/16/2010 2:18:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LITHIUM	23.4		0.24	MDL	2.2	PQL	mg/Kg	J	A
PHOSPHORUS	457		0.605	MDL	10.8	PQL	mg/Kg	J	Q
POTASSIUM	3370		19.5	MDL	54.0	PQL	mg/Kg	J	Q
SODIUM	75.3	J	40.3	MDL	108	PQL	mg/Kg	J	Z
TIN	2.50	J	1.08	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SED-013-SIV-SD-0.0-0.5

Collected: 12/16/2010 3:26:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.43	J	1.02	MDL	5.75	PQL	mg/Kg	J	Z
LITHIUM	32.2		0.25	MDL	2.3	PQL	mg/Kg	J	A
PHOSPHORUS	449		0.644	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	4530		20.7	MDL	57.5	PQL	mg/Kg	J	Q
SODIUM	112	J	42.9	MDL	115	PQL	mg/Kg	J	Z
TIN	2.83	J	1.15	MDL	11.5	PQL	mg/Kg	U	B

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SED-017-SIV-SD-0.0-0.5

Collected: 12/16/2010 10:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LITHIUM	22.2		0.24	MDL	2.2	PQL	mg/Kg	J	A
PHOSPHORUS	475		0.620	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	3590		19.9	MDL	55.4	PQL	mg/Kg	J	Q
SODIUM	79.4	J	41.3	MDL	111	PQL	mg/Kg	J	Z
TIN	2.51	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.45	J	0.931	MDL	5.54	PQL	mg/Kg	J	Z

Sample ID: SED-019-SIV-SD-0.0-0.5

Collected: 12/16/2010 9:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	6.31	J	1.15	MDL	6.48	PQL	mg/Kg	J	Z
LITHIUM	26.8		0.29	MDL	2.6	PQL	mg/Kg	J	A
PHOSPHORUS	707		0.726	MDL	13.0	PQL	mg/Kg	J	Q
POTASSIUM	3540		23.3	MDL	64.8	PQL	mg/Kg	J	Q
TIN	3.05	J	1.30	MDL	13.0	PQL	mg/Kg	U	B
Zirconium	1.15	J	1.09	MDL	6.48	PQL	mg/Kg	J	Z

Sample ID: SED-020-SIV-SD-0.0-0.5

Collected: 12/16/2010 11:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.88	J	0.948	MDL	5.33	PQL	mg/Kg	J	Z
LITHIUM	22.5		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	310		0.597	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	2480		19.2	MDL	53.3	PQL	mg/Kg	J	Q
SODIUM	60.8	J	39.7	MDL	107	PQL	mg/Kg	J	Z
TIN	2.28	J	1.07	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-147-SA5B-SS-0.0-0.5

Collected: 12/16/2010 8:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.18	J	1.02	MDL	5.72	PQL	mg/Kg	J	Z
LITHIUM	21.8		0.25	MDL	2.3	PQL	mg/Kg	J	A
PHOSPHORUS	420		0.641	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	2620		20.6	MDL	57.2	PQL	mg/Kg	J	Q
TIN	2.28	J	1.14	MDL	11.4	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-147-SA5B-SS-0.0-0.5

Collected: 12/16/2010 8:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.47	J	0.961	MDL	5.72	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:37:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LITHIUM	22.7		0.24	MDL	2.2	PQL	mg/Kg	J	A
PHOSPHORUS	444		0.616	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	3530		19.8	MDL	55.0	PQL	mg/Kg	J	Q
SODIUM	105	J	41.1	MDL	110	PQL	mg/Kg	J	Z
TIN	2.79	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.96	J	0.925	MDL	5.50	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.12	J	0.943	MDL	5.30	PQL	mg/Kg	J	Z
LITHIUM	18.7		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	309		0.593	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	3250		19.1	MDL	53.0	PQL	mg/Kg	J	Q
SODIUM	72.7	J	39.5	MDL	106	PQL	mg/Kg	J	Z
TIN	2.29	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.11	J	0.890	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-173-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.94	J	0.921	MDL	5.18	PQL	mg/Kg	J	Z
LITHIUM	18.9		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	290		0.580	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	3340		18.6	MDL	51.8	PQL	mg/Kg	J	Q
SODIUM	79.3	J	38.6	MDL	104	PQL	mg/Kg	J	Z
TIN	2.36	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.53	J	0.869	MDL	5.18	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-176-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.62	J	0.891	MDL	5.01	PQL	mg/Kg	J	Z
LITHIUM	13.7		0.22	MDL	2.0	PQL	mg/Kg	J	A
PHOSPHORUS	522		0.561	MDL	10.0	PQL	mg/Kg	J	Q
POTASSIUM	3470		18.0	MDL	50.1	PQL	mg/Kg	J	Q
TIN	2.12	J	1.00	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	1.27	J	0.841	MDL	5.01	PQL	mg/Kg	J	Z

Sample ID: SL-178-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.32	J	1.11	MDL	6.23	PQL	mg/Kg	J	Z
LITHIUM	27.2		0.27	MDL	2.5	PQL	mg/Kg	J	A
PHOSPHORUS	500		0.698	MDL	12.5	PQL	mg/Kg	J	Q
POTASSIUM	3930		22.4	MDL	62.3	PQL	mg/Kg	J	Q
TIN	3.39	J	1.25	MDL	12.5	PQL	mg/Kg	U	B
Zirconium	1.36	J	1.05	MDL	6.23	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:56:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.32	J	0.937	MDL	5.27	PQL	mg/Kg	J	Z
LITHIUM	24.6		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	273		0.590	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	2940		19.0	MDL	52.7	PQL	mg/Kg	J	Q
SODIUM	104	J	39.3	MDL	105	PQL	mg/Kg	J	Z
TIN	2.43	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.98	J	0.885	MDL	5.27	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.97	J	0.933	MDL	5.24	PQL	mg/Kg	J	Z
LITHIUM	18.3		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	279		0.587	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	2560		18.9	MDL	52.4	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-187-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.27	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.18	J	0.881	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-189-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.10	J	0.910	MDL	5.11	PQL	mg/Kg	J	Z
LITHIUM	16.5		0.23	MDL	2.0	PQL	mg/Kg	J	A
PHOSPHORUS	242		0.573	MDL	10.2	PQL	mg/Kg	J	Q
POTASSIUM	2860		18.4	MDL	51.1	PQL	mg/Kg	J	Q
SODIUM	91.0	J	38.2	MDL	102	PQL	mg/Kg	J	Z
TIN	2.31	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.16	J	0.859	MDL	5.11	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.00	J	0.912	MDL	5.13	PQL	mg/Kg	J	Z
LITHIUM	18.4		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	316		0.574	MDL	10.3	PQL	mg/Kg	J	Q
POTASSIUM	2680		18.5	MDL	51.3	PQL	mg/Kg	J	Q
SODIUM	86.3	J	38.2	MDL	103	PQL	mg/Kg	J	Z
TIN	2.02	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.38	J	0.861	MDL	5.13	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.76	J	0.967	MDL	5.43	PQL	mg/Kg	J	Z
LITHIUM	19.6		0.24	MDL	2.2	PQL	mg/Kg	J	A
PHOSPHORUS	348		0.609	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	3010		19.6	MDL	54.3	PQL	mg/Kg	J	Q
SODIUM	98.5	J	40.5	MDL	109	PQL	mg/Kg	J	Z
TIN	2.67	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.63	J	0.913	MDL	5.43	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-196-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.62	J	0.893	MDL	5.02	PQL	mg/Kg	J	Z
LITHIUM	17.8		0.22	MDL	2.0	PQL	mg/Kg	J	A
PHOSPHORUS	325		0.562	MDL	10.0	PQL	mg/Kg	J	Q
POTASSIUM	3510		18.1	MDL	50.2	PQL	mg/Kg	J	Q
TIN	2.24	J	1.00	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	2.34	J	0.843	MDL	5.02	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.82	J	0.914	MDL	5.14	PQL	mg/Kg	J	Z
LITHIUM	17.2		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	332		0.575	MDL	10.3	PQL	mg/Kg	J	Q
POTASSIUM	3150		18.5	MDL	51.4	PQL	mg/Kg	J	Q
SODIUM	96.2	J	38.3	MDL	103	PQL	mg/Kg	J	Z
TIN	2.30	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.81	J	0.863	MDL	5.14	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.89	J	0.947	MDL	5.32	PQL	mg/Kg	J	Z
LITHIUM	19.2		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	300		0.596	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	3260		19.1	MDL	53.2	PQL	mg/Kg	J	Q
SODIUM	93.2	J	39.7	MDL	106	PQL	mg/Kg	J	Z
TIN	2.28	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.53	J	0.894	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-202-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.42	J	0.944	MDL	5.31	PQL	mg/Kg	J	Z
LITHIUM	21.9		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	445		0.594	MDL	10.6	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-202-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3960		19.1	MDL	53.1	PQL	mg/Kg	J	Q
SODIUM	93.3	J	39.6	MDL	106	PQL	mg/Kg	J	Z
TIN	2.61	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.47	J	0.891	MDL	5.31	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-011-SIV-SD-0.0-0.5

Collected: 12/16/2010 2:18:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0441	MDL	0.441	PQL	mg/Kg	J	Z

Sample ID: SED-011-SIV-SD-0.0-0.5

Collected: 12/16/2010 2:18:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.641		0.0551	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SED-011-SIV-SD-0.0-0.5

Collected: 12/16/2010 2:18:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	119		0.119	MDL	0.441	PQL	mg/Kg	J	E, A

Sample ID: SED-011-SIV-SD-0.0-0.5

Collected: 12/16/2010 2:18:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.189	J	0.0662	MDL	0.221	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.56		0.0662	MDL	0.441	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.675		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.279		0.0397	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	20.1		0.132	MDL	0.441	PQL	mg/Kg	J	Q, E, A
COBALT	6.24		0.0221	MDL	0.110	PQL	mg/Kg	J	Q, A
COPPER	9.70		0.0728	MDL	0.441	PQL	mg/Kg	J	Q, E, A
LEAD	13.8		0.0115	MDL	0.221	PQL	mg/Kg	J	E, A
NICKEL	12.9		0.110	MDL	0.441	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-011-SIV-SD-0.0-0.5

Collected: 12/16/2010 2:18:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0437	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.368		0.0331	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	41.7		0.0243	MDL	0.110	PQL	mg/Kg	J	Q, E, A
ZINC	91.8		0.617	MDL	3.31	PQL	mg/Kg	J	E

Sample ID: SED-013-SIV-SD-0.0-0.5

Collected: 12/16/2010 3:26:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.207	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SED-013-SIV-SD-0.0-0.5

Collected: 12/16/2010 3:26:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.992		0.0547	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SED-013-SIV-SD-0.0-0.5

Collected: 12/16/2010 3:26:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	180		0.118	MDL	0.438	PQL	mg/Kg	J	E, A

Sample ID: SED-013-SIV-SD-0.0-0.5

Collected: 12/16/2010 3:26:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.188	J	0.0657	MDL	0.219	PQL	mg/Kg	UJ	Q, B
ARSENIC	9.74		0.0657	MDL	0.438	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.06		0.0175	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.423		0.0394	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	37.4		0.131	MDL	0.438	PQL	mg/Kg	J	Q, E, A
COBALT	9.87		0.0219	MDL	0.109	PQL	mg/Kg	J	Q, A
COPPER	15.4		0.0722	MDL	0.438	PQL	mg/Kg	J	Q, E, A
LEAD	19.8		0.0114	MDL	0.219	PQL	mg/Kg	J	E, A
NICKEL	21.7		0.109	MDL	0.438	PQL	mg/Kg	J	Q, E, A
SILVER	0.0981	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.575		0.0328	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	69.0		0.0241	MDL	0.109	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-013-SIV-SD-0.0-0.5

Collected: 12/16/2010 3:26:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	141		0.613	MDL	3.28	PQL	mg/Kg	J	E

Sample ID: SED-017-SIV-SD-0.0-0.5

Collected: 12/16/2010 10:45:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.120	J	0.0443	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SED-017-SIV-SD-0.0-0.5

Collected: 12/16/2010 10:45:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.865		0.0554	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SED-017-SIV-SD-0.0-0.5

Collected: 12/16/2010 10:45:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	136		0.120	MDL	0.443	PQL	mg/Kg	J	E, A

Sample ID: SED-017-SIV-SD-0.0-0.5

Collected: 12/16/2010 10:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.210	J	0.0665	MDL	0.222	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.45		0.0665	MDL	0.443	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.735		0.0177	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.743		0.0399	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	30.3		0.133	MDL	0.443	PQL	mg/Kg	J	Q, E, A
COBALT	7.30		0.0222	MDL	0.111	PQL	mg/Kg	J	Q, A
COPPER	16.0		0.0731	MDL	0.443	PQL	mg/Kg	J	Q, E, A
LEAD	29.7		0.0115	MDL	0.222	PQL	mg/Kg	J	E, A
NICKEL	15.7		0.111	MDL	0.443	PQL	mg/Kg	J	Q, E, A
SILVER	0.141		0.0133	MDL	0.111	PQL	mg/Kg	J	Q
THALLIUM	0.387		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	52.1		0.0244	MDL	0.111	PQL	mg/Kg	J	Q, E, A
ZINC	117		0.620	MDL	3.32	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-019-SIV-SD-0.0-0.5

Collected: 12/16/2010 9:30:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	308		1.83	MDL	9.81	PQL	mg/Kg	J	E

Sample ID: SED-019-SIV-SD-0.0-0.5

Collected: 12/16/2010 9:30:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.202	J	0.0523	MDL	0.523	PQL	mg/Kg	J	Z

Sample ID: SED-019-SIV-SD-0.0-0.5

Collected: 12/16/2010 9:30:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	3.69		0.0654	MDL	0.131	PQL	mg/Kg	J	Q

Sample ID: SED-019-SIV-SD-0.0-0.5

Collected: 12/16/2010 9:30:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	183		0.141	MDL	0.523	PQL	mg/Kg	J	E, A

Sample ID: SED-019-SIV-SD-0.0-0.5

Collected: 12/16/2010 9:30:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.931		0.0785	MDL	0.262	PQL	mg/Kg	J	Q
ARSENIC	11.1		0.0785	MDL	0.523	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.07		0.0209	MDL	0.131	PQL	mg/Kg	J	Q, E
CADMIUM	2.23		0.0471	MDL	0.131	PQL	mg/Kg	J	Q
CHROMIUM	40.2		0.157	MDL	0.523	PQL	mg/Kg	J	Q, E, A
COBALT	11.2		0.0262	MDL	0.131	PQL	mg/Kg	J	Q, A
COPPER	50.5		0.0864	MDL	0.523	PQL	mg/Kg	J	Q, E, A
LEAD	54.2		0.0136	MDL	0.262	PQL	mg/Kg	J	E, A
NICKEL	23.5		0.131	MDL	0.523	PQL	mg/Kg	J	Q, E, A
SILVER	0.267		0.0157	MDL	0.131	PQL	mg/Kg	J	Q
THALLIUM	0.505		0.0393	MDL	0.131	PQL	mg/Kg	J	Q
VANADIUM	68.2		0.0288	MDL	0.131	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-020-SIV-SD-0.0-0.5

Collected: 12/16/2010 11:40:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0829	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SED-020-SIV-SD-0.0-0.5

Collected: 12/16/2010 11:40:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.497		0.0523	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SED-020-SIV-SD-0.0-0.5

Collected: 12/16/2010 11:40:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	95.9		0.113	MDL	0.418	PQL	mg/Kg	J	E, A

Sample ID: SED-020-SIV-SD-0.0-0.5

Collected: 12/16/2010 11:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.191	J	0.0627	MDL	0.209	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.71		0.0627	MDL	0.418	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.548		0.0167	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.311		0.0376	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	19.0		0.125	MDL	0.418	PQL	mg/Kg	J	Q, E, A
COBALT	5.25		0.0209	MDL	0.105	PQL	mg/Kg	J	Q, A
COPPER	8.77		0.0690	MDL	0.418	PQL	mg/Kg	J	Q, E, A
LEAD	12.2		0.0109	MDL	0.209	PQL	mg/Kg	J	E, A
NICKEL	11.1		0.105	MDL	0.418	PQL	mg/Kg	J	Q, E, A
SILVER	0.0561	J	0.0125	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.284		0.0314	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	38.2		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, E, A
ZINC	96.5		0.585	MDL	3.14	PQL	mg/Kg	J	E

Sample ID: SL-147-SA5B-SS-0.0-0.5

Collected: 12/16/2010 8:55:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	161		0.641	MDL	3.43	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-147-SA5B-SS-0.0-0.5

Collected: 12/16/2010 8:55:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0458	MDL	0.458	PQL	mg/Kg	J	Z

Sample ID: SL-147-SA5B-SS-0.0-0.5

Collected: 12/16/2010 8:55:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.78		0.0572	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-147-SA5B-SS-0.0-0.5

Collected: 12/16/2010 8:55:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	176		0.124	MDL	0.458	PQL	mg/Kg	J	E, A

Sample ID: SL-147-SA5B-SS-0.0-0.5

Collected: 12/16/2010 8:55:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.319		0.0686	MDL	0.229	PQL	mg/Kg	UJ	Q, B
ARSENIC	9.55		0.0686	MDL	0.458	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.926		0.0183	MDL	0.114	PQL	mg/Kg	J	Q, E
CADMIUM	0.806		0.0412	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	36.7		0.137	MDL	0.458	PQL	mg/Kg	J	Q, E, A
COBALT	10.9		0.0229	MDL	0.114	PQL	mg/Kg	J	Q, A
COPPER	20.3		0.0755	MDL	0.458	PQL	mg/Kg	J	Q, E, A
LEAD	40.9		0.0119	MDL	0.229	PQL	mg/Kg	J	E, A
NICKEL	23.9		0.114	MDL	0.458	PQL	mg/Kg	J	Q, E, A
SILVER	0.228		0.0137	MDL	0.114	PQL	mg/Kg	J	Q
THALLIUM	0.395		0.0343	MDL	0.114	PQL	mg/Kg	J	Q
VANADIUM	63.6		0.0252	MDL	0.114	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-169-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:37:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0445	MDL	0.445	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-169-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:37:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.12		0.0556	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-169-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:37:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	161		0.120	MDL	0.445	PQL	mg/Kg	J	E, A

Sample ID: SL-169-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:37:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.235		0.0667	MDL	0.222	PQL	mg/Kg	UJ	Q, B
ARSENIC	10.7		0.0667	MDL	0.445	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.922		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.562		0.0400	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	32.2		0.133	MDL	0.445	PQL	mg/Kg	J	Q, E, A
COBALT	8.98		0.0222	MDL	0.111	PQL	mg/Kg	J	Q, A
COPPER	16.4		0.0734	MDL	0.445	PQL	mg/Kg	J	Q, E, A
LEAD	21.2		0.0116	MDL	0.222	PQL	mg/Kg	J	E, A
NICKEL	19.9		0.111	MDL	0.445	PQL	mg/Kg	J	Q, E, A
SILVER	0.249		0.0133	MDL	0.111	PQL	mg/Kg	J	Q
THALLIUM	0.446		0.0333	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	57.4		0.0245	MDL	0.111	PQL	mg/Kg	J	Q, E, A
ZINC	127		0.622	MDL	3.33	PQL	mg/Kg	J	E

Sample ID: SL-172-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:52:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:52:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.13		0.0530	MDL	0.106	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-172-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:52:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	158		0.114	MDL	0.424	PQL	mg/Kg	J	E, A

Sample ID: SL-172-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:52:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.213		0.0636	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	12.2		0.0636	MDL	0.424	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.925		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.326		0.0381	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	32.1		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E, A
COBALT	8.47		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, A
COPPER	13.8		0.0699	MDL	0.424	PQL	mg/Kg	J	Q, E, A
LEAD	18.6		0.0110	MDL	0.212	PQL	mg/Kg	J	E, A
NICKEL	19.3		0.106	MDL	0.424	PQL	mg/Kg	J	Q, E, A
SILVER	0.0762	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.442		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	55.2		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E, A
ZINC	84.3		0.593	MDL	3.18	PQL	mg/Kg	J	E

Sample ID: SL-173-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.118	J	0.0410	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-173-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.16		0.0513	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-173-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	155		0.111	MDL	0.410	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-173-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.216		0.0615	MDL	0.205	PQL	mg/Kg	UJ	Q, B
ARSENIC	11.2		0.0615	MDL	0.410	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.893		0.0164	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.345		0.0369	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	30.0		0.123	MDL	0.410	PQL	mg/Kg	J	Q, E, A
COBALT	8.40		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, A
COPPER	13.6		0.0677	MDL	0.410	PQL	mg/Kg	J	Q, E, A
LEAD	16.3		0.0107	MDL	0.205	PQL	mg/Kg	J	E, A
NICKEL	18.7		0.103	MDL	0.410	PQL	mg/Kg	J	Q, E, A
SILVER	0.0930	J	0.0123	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.448		0.0308	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	53.7		0.0226	MDL	0.103	PQL	mg/Kg	J	Q, E, A
ZINC	99.2		0.574	MDL	3.08	PQL	mg/Kg	J	E

Sample ID: SL-176-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0667	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-176-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.811		0.0526	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-176-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:25:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	169		0.114	MDL	0.421	PQL	mg/Kg	J	E, A

Sample ID: SL-176-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.192	J	0.0631	MDL	0.210	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.93		0.0631	MDL	0.421	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.495		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-176-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.506		0.0379	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	20.5		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E, A
COBALT	7.07		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, A
COPPER	13.2		0.0694	MDL	0.421	PQL	mg/Kg	J	Q, E, A
LEAD	37.6		0.0109	MDL	0.210	PQL	mg/Kg	J	E, A
NICKEL	12.5		0.105	MDL	0.421	PQL	mg/Kg	J	Q, E, A
SILVER	0.123		0.0126	MDL	0.105	PQL	mg/Kg	J	Q
THALLIUM	0.314		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	53.2		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, E, A
ZINC	110		0.589	MDL	3.15	PQL	mg/Kg	J	E

Sample ID: SL-178-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:15:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	474		1.78	MDL	9.53	PQL	mg/Kg	J	E

Sample ID: SL-178-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:15:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.183	J	0.0508	MDL	0.508	PQL	mg/Kg	J	Z

Sample ID: SL-178-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:15:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.46		0.0635	MDL	0.127	PQL	mg/Kg	J	Q

Sample ID: SL-178-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:15:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	202		0.137	MDL	0.508	PQL	mg/Kg	J	E, A

Sample ID: SL-178-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.533		0.0763	MDL	0.254	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-178-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.88		0.0763	MDL	0.508	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.03		0.0203	MDL	0.127	PQL	mg/Kg	J	Q, E
CADMIUM	2.39		0.0458	MDL	0.127	PQL	mg/Kg	J	Q
CHROMIUM	54.6		0.153	MDL	0.508	PQL	mg/Kg	J	Q, E, A
COBALT	13.1		0.0254	MDL	0.127	PQL	mg/Kg	J	Q, A
COPPER	32.0		0.0839	MDL	0.508	PQL	mg/Kg	J	Q, E, A
LEAD	101		0.0132	MDL	0.254	PQL	mg/Kg	J	E, A
NICKEL	35.0		0.127	MDL	0.508	PQL	mg/Kg	J	Q, E, A
SILVER	1.90		0.0153	MDL	0.127	PQL	mg/Kg	J	Q
THALLIUM	0.503		0.0381	MDL	0.127	PQL	mg/Kg	J	Q
VANADIUM	69.8		0.0280	MDL	0.127	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-186-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:56:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.0409	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:56:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.08		0.0511	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-186-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:56:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	177		0.110	MDL	0.409	PQL	mg/Kg	J	E, A

Sample ID: SL-186-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:56:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.222		0.0614	MDL	0.205	PQL	mg/Kg	UJ	Q, B
ARSENIC	16.4		0.0614	MDL	0.409	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.995		0.0164	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.283		0.0368	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	34.6		0.123	MDL	0.409	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-186-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:56:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	9.10		0.0205	MDL	0.102	PQL	mg/Kg	J	Q, A
COPPER	14.7		0.0675	MDL	0.409	PQL	mg/Kg	J	Q, E, A
LEAD	27.1		0.0106	MDL	0.205	PQL	mg/Kg	J	E, A
NICKEL	21.2		0.102	MDL	0.409	PQL	mg/Kg	J	Q, E, A
SILVER	0.119		0.0123	MDL	0.102	PQL	mg/Kg	J	Q
THALLIUM	0.426		0.0307	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	58.8		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, E, A
ZINC	96.3		0.573	MDL	3.07	PQL	mg/Kg	J	E

Sample ID: SL-187-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:19:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.117	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:19:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.26		0.0530	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-187-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:19:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	148		0.114	MDL	0.424	PQL	mg/Kg	J	E, A

Sample ID: SL-187-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:19:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.188	J	0.0636	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.93		0.0636	MDL	0.424	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.866		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.356		0.0381	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	32.7		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E, A
COBALT	9.70		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, A
COPPER	13.7		0.0699	MDL	0.424	PQL	mg/Kg	J	Q, E, A
LEAD	19.9		0.0110	MDL	0.212	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-187-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:19:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	22.2		0.106	MDL	0.424	PQL	mg/Kg	J	Q, E, A
SILVER	0.0889	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.408		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	53.1		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E, A
ZINC	89.3		0.593	MDL	3.18	PQL	mg/Kg	J	E

Sample ID: SL-189-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:25:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.230		0.0387	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-189-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0430	MDL	0.430	PQL	mg/Kg	J	Z

Sample ID: SL-189-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.839		0.0537	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-189-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:25:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	119		0.116	MDL	0.430	PQL	mg/Kg	J	E, A

Sample ID: SL-189-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.212	J	0.0644	MDL	0.215	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.46		0.0644	MDL	0.430	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.632		0.0172	MDL	0.107	PQL	mg/Kg	J	Q, E
CHROMIUM	20.4		0.129	MDL	0.430	PQL	mg/Kg	J	Q, E, A
COBALT	6.54		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, A
COPPER	10.8		0.0709	MDL	0.430	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-189-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	13.8		0.0112	MDL	0.215	PQL	mg/Kg	J	E, A
NICKEL	13.8		0.107	MDL	0.430	PQL	mg/Kg	J	Q, E, A
SILVER	0.100	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.358		0.0322	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	38.0		0.0236	MDL	0.107	PQL	mg/Kg	J	Q, E, A
ZINC	57.3		0.602	MDL	3.22	PQL	mg/Kg	J	E

Sample ID: SL-192-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:04:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.118	J	0.0410	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:04:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.936		0.0513	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-192-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:04:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	166		0.111	MDL	0.410	PQL	mg/Kg	J	E, A

Sample ID: SL-192-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:04:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.247		0.0615	MDL	0.205	PQL	mg/Kg	UJ	Q, B
ARSENIC	15.1		0.0615	MDL	0.410	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.846		0.0164	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.507		0.0369	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	33.2		0.123	MDL	0.410	PQL	mg/Kg	J	Q, E, A
COBALT	8.86		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, A
COPPER	17.3		0.0677	MDL	0.410	PQL	mg/Kg	J	Q, E, A
LEAD	16.4		0.0107	MDL	0.205	PQL	mg/Kg	J	E, A
NICKEL	21.8		0.103	MDL	0.410	PQL	mg/Kg	J	Q, E, A
SILVER	0.121		0.0123	MDL	0.103	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-192-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:04:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.424		0.0308	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	56.9		0.0226	MDL	0.103	PQL	mg/Kg	J	Q, E, A
ZINC	129		0.574	MDL	3.08	PQL	mg/Kg	J	E

Sample ID: SL-194-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:40:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:40:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.752		0.0538	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-194-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:40:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	156		0.116	MDL	0.431	PQL	mg/Kg	J	E, A

Sample ID: SL-194-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.209	J	0.0646	MDL	0.215	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.02		0.0646	MDL	0.431	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.881		0.0172	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.261		0.0387	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	29.1		0.129	MDL	0.431	PQL	mg/Kg	J	Q, E, A
COBALT	8.37		0.0215	MDL	0.108	PQL	mg/Kg	J	Q, A
COPPER	12.5		0.0710	MDL	0.431	PQL	mg/Kg	J	Q, E, A
LEAD	14.2		0.0112	MDL	0.215	PQL	mg/Kg	J	E, A
NICKEL	17.2		0.108	MDL	0.431	PQL	mg/Kg	J	Q, E, A
SILVER	0.0775	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.391		0.0323	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	56.3		0.0237	MDL	0.108	PQL	mg/Kg	J	Q, E, A
ZINC	90.8		0.603	MDL	3.23	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-196-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.135	J	0.0401	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-196-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.35		0.0502	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-196-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	178		0.108	MDL	0.401	PQL	mg/Kg	J	E, A

Sample ID: SL-196-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.206		0.0602	MDL	0.201	PQL	mg/Kg	UJ	Q, B
ARSENIC	11.1		0.0602	MDL	0.401	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.974		0.0161	MDL	0.100	PQL	mg/Kg	J	Q, E
CADMIUM	0.407		0.0361	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	29.6		0.120	MDL	0.401	PQL	mg/Kg	J	Q, E, A
COBALT	11.8		0.0201	MDL	0.100	PQL	mg/Kg	J	Q, A
COPPER	14.4		0.0662	MDL	0.401	PQL	mg/Kg	J	Q, E, A
LEAD	16.6		0.0104	MDL	0.201	PQL	mg/Kg	J	E, A
NICKEL	19.0		0.100	MDL	0.401	PQL	mg/Kg	J	Q, E, A
SILVER	0.105		0.0120	MDL	0.100	PQL	mg/Kg	J	Q
THALLIUM	0.410		0.0301	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	55.6		0.0221	MDL	0.100	PQL	mg/Kg	J	Q, E, A
ZINC	91.8		0.562	MDL	3.01	PQL	mg/Kg	J	E

Sample ID: SL-198-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:59:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.126	J	0.0419	MDL	0.419	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-198-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:59:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.73		0.0524	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-198-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:59:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	158		0.113	MDL	0.419	PQL	mg/Kg	J	E, A

Sample ID: SL-198-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:59:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.530		0.0628	MDL	0.209	PQL	mg/Kg	J	Q
ARSENIC	12.8		0.0628	MDL	0.419	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.799		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	1.33		0.0377	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	38.6		0.126	MDL	0.419	PQL	mg/Kg	J	Q, E, A
COBALT	33.3		0.0209	MDL	0.105	PQL	mg/Kg	J	Q, A
COPPER	102		0.0691	MDL	0.419	PQL	mg/Kg	J	Q, E, A
LEAD	59.0		0.0109	MDL	0.209	PQL	mg/Kg	J	E, A
NICKEL	36.3		0.105	MDL	0.419	PQL	mg/Kg	J	Q, E, A
SILVER	0.146		0.0126	MDL	0.105	PQL	mg/Kg	J	Q
THALLIUM	0.422		0.0314	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	55.3		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, E, A
ZINC	188		0.587	MDL	3.14	PQL	mg/Kg	J	E

Sample ID: SL-199-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:23:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.204	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:23:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.15		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-199-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:23:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	142		0.114	MDL	0.421	PQL	mg/Kg	J	E, A

Sample ID: SL-199-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:23:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.157	J	0.0632	MDL	0.211	PQL	mg/Kg	UJ	Q, B
ARSENIC	9.33		0.0632	MDL	0.421	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.742		0.0169	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.517		0.0379	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	29.9		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E, A
COBALT	10.0		0.0211	MDL	0.105	PQL	mg/Kg	J	Q, A
COPPER	25.4		0.0695	MDL	0.421	PQL	mg/Kg	J	Q, E, A
LEAD	22.0		0.0110	MDL	0.211	PQL	mg/Kg	J	E, A
NICKEL	23.3		0.105	MDL	0.421	PQL	mg/Kg	J	Q, E, A
SILVER	0.0725	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.424		0.0316	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	50.1		0.0232	MDL	0.105	PQL	mg/Kg	J	Q, E, A
ZINC	82.9		0.590	MDL	3.16	PQL	mg/Kg	J	E

Sample ID: SL-202-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:23:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0909	J	0.0412	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-202-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:23:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.05		0.0515	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-202-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:23:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	154		0.111	MDL	0.412	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-202-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:23:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.189	J	0.0618	MDL	0.206	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.14		0.0618	MDL	0.412	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.775		0.0165	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.334		0.0371	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	28.3		0.124	MDL	0.412	PQL	mg/Kg	J	Q, E, A
COBALT	7.91		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, A
COPPER	13.2		0.0680	MDL	0.412	PQL	mg/Kg	J	Q, E, A
LEAD	17.3		0.0107	MDL	0.206	PQL	mg/Kg	J	E, A
NICKEL	18.1		0.103	MDL	0.412	PQL	mg/Kg	J	Q, E, A
SILVER	0.0856	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.405		0.0309	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	53.0		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, E, A
ZINC	98.7		0.577	MDL	3.09	PQL	mg/Kg	J	E

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SED-011-SIV-SD-0.0-0.5

Collected: 12/16/2010 2:18:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.60	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SED-013-SIV-SD-0.0-0.5

Collected: 12/16/2010 3:26:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.95	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SED-017-SIV-SD-0.0-0.5

Collected: 12/16/2010 10:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-172-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-173-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-176-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.90	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:56:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.88	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.69	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-189-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.58	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-196-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.72	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-198-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.70	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.76	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-202-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.86	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SED-013-SIV-SD-0.0-0.5

Collected: 12/16/2010 3:26:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0198	J	0.0031	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SED-017-SIV-SD-0.0-0.5

Collected: 12/16/2010 10:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0741	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SED-020-SIV-SD-0.0-0.5

Collected: 12/16/2010 11:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0051	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:37:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0119	J	0.0032	MDL	0.110	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-173-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0053	J	0.0028	MDL	0.0986	PQL	mg/Kg	J	Z

Sample ID: SL-176-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0109	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:56:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0212	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0130	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.101	J	0.0029	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-196-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0267	J	0.0028	MDL	0.0989	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0108	J	0.0028	MDL	0.0992	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0067	J	0.0029	MDL	0.100	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-202-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0503	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SED-011-SIV-SD-0.0-0.5

Collected: 12/16/2010 2:18:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	1.2		0.037	MDL	0.18	PQL	ug/Kg	J	S
DELTA-BHC	0.27		0.040	MDL	0.18	PQL	ug/Kg	J	S
ENDOSULFAN I	0.13	J	0.049	MDL	0.18	PQL	ug/Kg	J	Z, S

Sample ID: SED-013-SIV-SD-0.0-0.5

Collected: 12/16/2010 3:26:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.071	J	0.041	MDL	0.19	PQL	ug/Kg	J	Z, S

Sample ID: SED-017-SIV-SD-0.0-0.5

Collected: 12/16/2010 10:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.075	U	0.075	MDL	0.38	PQL	ug/Kg	UJ	S
4,4'-DDE	1.3	U	1.3	MDL	1.3	PQL	ug/Kg	UJ	S
4,4'-DDT	2.1	U	2.1	MDL	2.1	PQL	ug/Kg	UJ	S
ALDRIN	0.075	U	0.075	MDL	0.19	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.038	U	0.038	MDL	0.19	PQL	ug/Kg	UJ	S
BETA-BHC	0.068	U	0.068	MDL	0.19	PQL	ug/Kg	UJ	S
Chlordane	2.1	U	2.1	MDL	3.8	PQL	ug/Kg	UJ	S
DELTA-BHC	0.041	U	0.041	MDL	0.19	PQL	ug/Kg	UJ	S
DIELDRIN	0.34	U	0.34	MDL	0.38	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.050	U	0.050	MDL	0.19	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.15	U	0.15	MDL	0.38	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.075	U	0.075	MDL	0.38	PQL	ug/Kg	UJ	S
ENDRIN	0.075	U	0.075	MDL	0.38	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.28	U	0.28	MDL	0.38	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.22	U	0.22	MDL	0.38	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8081A	Matrix:	SO

Sample ID: SED-017-SIV-SD-0.0-0.5 Collected: 12/16/2010 10:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
gamma-BHC (Lindane)	0.038	U	0.038	MDL	0.19	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.068	U	0.068	MDL	0.19	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.055	U	0.055	MDL	0.19	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	S
MIREX	0.55	U	0.55	MDL	0.55	PQL	ug/Kg	UJ	S
TOXAPHENE	2.5	U	2.5	MDL	7.5	PQL	ug/Kg	UJ	S

Sample ID: SED-019-SIV-SD-0.0-0.5 Collected: 12/16/2010 9:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.29	J	0.24	MDL	1.1	PQL	ug/Kg	J	Z

Sample ID: SED-020-SIV-SD-0.0-0.5 Collected: 12/16/2010 11:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.075	J	0.039	MDL	0.18	PQL	ug/Kg	J	Z, S

Sample ID: SL-169-SA5B-SS-0.0-0.5 Collected: 12/16/2010 1:37:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.057	J	0.039	MDL	0.19	PQL	ug/Kg	J	Z
DELTA-BHC	0.056	J	0.041	MDL	0.19	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5B-SS-0.0-0.5 Collected: 12/16/2010 1:52:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.090	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z
DELTA-BHC	0.15	J	0.038	MDL	0.18	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.036	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z

Sample ID: SL-176-SA5B-SS-0.0-0.5 Collected: 12/16/2010 9:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR	0.46	J	0.32	MDL	0.87	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SV0A
Method:	8081A
Matrix:	SO

Sample ID: SL-186-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:56:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.080	J	0.064	MDL	0.18	PQL	ug/Kg	J	Z

Sample ID: SL-187-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:19:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.37		0.26	MDL	0.36	PQL	ug/Kg	J	S
4,4'-DDE	0.43	U	0.43	MDL	0.43	PQL	ug/Kg	R	S
4,4'-DDT	0.54	U	0.54	MDL	0.54	PQL	ug/Kg	R	S
ALDRIN	0.070	U	0.070	MDL	0.18	PQL	ug/Kg	R	S
ALPHA-BHC	0.036	U	0.036	MDL	0.18	PQL	ug/Kg	R	S
BETA-BHC	0.095	U	0.095	MDL	0.18	PQL	ug/Kg	R	S
Chlordane	3.4	U	3.4	MDL	3.6	PQL	ug/Kg	R	S
DELTA-BHC	0.43		0.038	MDL	0.18	PQL	ug/Kg	J	S
DIELDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDOSULFAN I	0.047	U	0.047	MDL	0.18	PQL	ug/Kg	R	S
ENDOSULFAN II	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.32	U	0.32	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN KETONE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.066	U	0.066	MDL	0.18	PQL	ug/Kg	R	S
HEPTACHLOR	0.064	U	0.064	MDL	0.18	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.074	U	0.074	MDL	0.18	PQL	ug/Kg	R	S
METHOXYCHLOR	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	R	S
MIREX	0.34	U	0.34	MDL	0.36	PQL	ug/Kg	R	S
TOXAPHENE	2.3	U	2.3	MDL	7.0	PQL	ug/Kg	R	S

Sample ID: SL-194-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.23	U	0.23	MDL	0.38	PQL	ug/Kg	R	S
4,4'-DDE	0.29	U	0.29	MDL	0.38	PQL	ug/Kg	R	S
4,4'-DDT	0.51	U	0.51	MDL	0.51	PQL	ug/Kg	R	S
ALDRIN	0.073	U	0.073	MDL	0.18	PQL	ug/Kg	R	S
ALPHA-BHC	0.14	J	0.038	MDL	0.18	PQL	ug/Kg	J	Z, S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-194-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.067	U	0.067	MDL	0.18	PQL	ug/Kg	R	S
Chlordane	5.0	U	5.0	MDL	5.0	PQL	ug/Kg	R	S
DELTA-BHC	0.040	U	0.040	MDL	0.18	PQL	ug/Kg	R	S
DIELDRIN	0.073	U	0.073	MDL	0.38	PQL	ug/Kg	R	S
ENDOSULFAN I	0.049	U	0.049	MDL	0.18	PQL	ug/Kg	R	S
ENDOSULFAN II	0.080	U	0.080	MDL	0.38	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.073	U	0.073	MDL	0.38	PQL	ug/Kg	R	S
ENDRIN	0.073	U	0.073	MDL	0.38	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.23	U	0.23	MDL	0.38	PQL	ug/Kg	R	S
ENDRIN KETONE	0.13	U	0.13	MDL	0.38	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.038	U	0.038	MDL	0.18	PQL	ug/Kg	R	S
HEPTACHLOR	0.44	U	0.44	MDL	0.44	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.065	U	0.065	MDL	0.18	PQL	ug/Kg	R	S
METHOXYCHLOR	0.38	U	0.38	MDL	1.8	PQL	ug/Kg	R	S
MIREX	0.13	U	0.13	MDL	0.38	PQL	ug/Kg	R	S
TOXAPHENE	2.4	U	2.4	MDL	7.3	PQL	ug/Kg	R	S

Sample ID: SL-196-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.13	U	0.13	MDL	0.36	PQL	ug/Kg	R	S
4,4'-DDE	0.43	U	0.43	MDL	0.43	PQL	ug/Kg	R	S
4,4'-DDT	0.48	U	0.48	MDL	0.48	PQL	ug/Kg	R	S
ALDRIN	0.084	J	0.070	MDL	0.17	PQL	ug/Kg	J	Z, S
ALPHA-BHC	0.043	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z, S
BETA-BHC	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	R	S
Chlordane	0.84	U	0.84	MDL	3.6	PQL	ug/Kg	R	S
DELTA-BHC	0.12	U	0.12	MDL	0.17	PQL	ug/Kg	R	S
DIELDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDOSULFAN I	0.081	U	0.081	MDL	0.17	PQL	ug/Kg	R	S
ENDOSULFAN II	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8081A	Matrix:	SO

Sample ID: SL-196-SA5B-SS-0.0-0.5 Collected: 12/16/2010 1:12:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN KETONE	0.37	U	0.37	MDL	0.37	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.048	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z, S
HEPTACHLOR	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.40	U	0.40	MDL	0.40	PQL	ug/Kg	R	S
METHOXYCHLOR	0.67	U	0.67	MDL	1.7	PQL	ug/Kg	R	S
MIREX	0.87	U	0.87	MDL	0.87	PQL	ug/Kg	R	S
TOXAPHENE	2.3	U	2.3	MDL	7.0	PQL	ug/Kg	R	S

Sample ID: SL-198-SA5B-SS-0.0-0.5 Collected: 12/16/2010 10:59:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.14	J	0.064	MDL	0.18	PQL	ug/Kg	J	Z

Method Category:	SVOA		
Method:	8082	Matrix:	SO

Sample ID: SED-011-SIV-SD-0.0-0.5 Collected: 12/16/2010 2:18:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.1	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	2.6	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z, L

Sample ID: SED-013-SIV-SD-0.0-0.5 Collected: 12/16/2010 3:26:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	4.7		1.1	MDL	3.8	PQL	ug/Kg	J	L

Sample ID: SED-017-SIV-SD-0.0-0.5 Collected: 12/16/2010 10:45:00 Analysis Type: RES Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	2.3	U	2.3	MDL	7.5	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SED-017-SIV-SD-0.0-0.5

Collected: 12/16/2010 10:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	2.3	U	2.3	MDL	7.5	PQL	ug/Kg	UJ	L
Aroclor 5460	13		2.3	MDL	7.5	PQL	ug/Kg	J	L

Sample ID: SED-019-SIV-SD-0.0-0.5

Collected: 12/16/2010 9:30:00

Analysis Type: RES

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	13	U	13	MDL	44	PQL	ug/Kg	UJ	L
Aroclor 5442	13	U	13	MDL	44	PQL	ug/Kg	UJ	L
Aroclor 5460	130		13	MDL	44	PQL	ug/Kg	J	L

Sample ID: SED-020-SIV-SD-0.0-0.5

Collected: 12/16/2010 11:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOLOR 1254	2.5	J	0.72	MDL	3.7	PQL	ug/Kg	J	Z
Aroclor 5432	2.2	U	2.2	MDL	7.2	PQL	ug/Kg	UJ	L
Aroclor 5442	2.2	U	2.2	MDL	7.2	PQL	ug/Kg	UJ	L
Aroclor 5460	6.6	J	2.2	MDL	7.2	PQL	ug/Kg	J	Z, L

Sample ID: SL-147-SA5B-SS-0.0-0.5

Collected: 12/16/2010 8:55:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	5.7	U	5.7	MDL	19	PQL	ug/Kg	UJ	L
Aroclor 5442	5.7	U	5.7	MDL	19	PQL	ug/Kg	UJ	L
Aroclor 5460	62		5.7	MDL	19	PQL	ug/Kg	J	L

Sample ID: SL-169-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:37:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	2.3	U	2.3	MDL	7.5	PQL	ug/Kg	UJ	L
Aroclor 5442	2.3	U	2.3	MDL	7.5	PQL	ug/Kg	UJ	L
Aroclor 5460	7.0	J	2.3	MDL	7.5	PQL	ug/Kg	J	Z, L

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8082	Matrix:	SO

Sample ID: SL-172-SA5B-SS-0.0-0.5 Collected: 12/16/2010 1:52:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.92	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	2.1	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, L

Sample ID: SL-173-SA5B-SS-0.0-0.5 Collected: 12/16/2010 1:12:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	3.8		1.1	MDL	3.5	PQL	ug/Kg	J	L

Sample ID: SL-176-SA5B-SS-0.0-0.5 Collected: 12/16/2010 9:25:00 Analysis Type: RES Dilution: 250

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	260	U	260	MDL	870	PQL	ug/Kg	UJ	L
Aroclor 5442	260	U	260	MDL	870	PQL	ug/Kg	UJ	L
Aroclor 5460	260	U	260	MDL	870	PQL	ug/Kg	UJ	L

Sample ID: SL-178-SA5B-SS-0.0-0.5 Collected: 12/16/2010 9:15:00 Analysis Type: RES Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	13	U	13	MDL	42	PQL	ug/Kg	UJ	L
Aroclor 5442	13	U	13	MDL	42	PQL	ug/Kg	UJ	L
Aroclor 5460	54		13	MDL	42	PQL	ug/Kg	J	L

Sample ID: SL-186-SA5B-SS-0.0-0.5 Collected: 12/16/2010 10:56:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	3.0	J	0.71	MDL	3.7	PQL	ug/Kg	J	Z
AROCLOR 1260	1.1	J	0.71	MDL	3.7	PQL	ug/Kg	J	Z
Aroclor 5432	2.1	U	2.1	MDL	7.1	PQL	ug/Kg	UJ	L
Aroclor 5442	2.1	U	2.1	MDL	7.1	PQL	ug/Kg	UJ	L
Aroclor 5460	5.0	J	2.1	MDL	7.1	PQL	ug/Kg	J	Z, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-187-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	5.6		1.1	MDL	3.5	PQL	ug/Kg	J	L

Sample ID: SL-189-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.3	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.86	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	2.7	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, L

Sample ID: SL-192-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	3.3	J	1.8	MDL	9.1	PQL	ug/Kg	J	Z
AROCLOR 1260	5.5	J	1.8	MDL	9.1	PQL	ug/Kg	J	Z
Aroclor 5432	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L

Sample ID: SL-194-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	3.0	J	1.1	MDL	3.7	PQL	ug/Kg	J	Z, L

Sample ID: SL-196-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	6.1		1.1	MDL	3.5	PQL	ug/Kg	J	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA
Method:	8082
Matrix:	SO

Sample ID: SL-198-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	3.2	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, L

Sample ID: SL-199-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:23:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	7.8		0.70	MDL	3.6	PQL	ug/Kg	J	S
AROCLOR 1260	13		0.70	MDL	3.6	PQL	ug/Kg	J	S
Aroclor 5432	2.1	U	2.1	MDL	7.0	PQL	ug/Kg	UJ	L
Aroclor 5442	2.1	U	2.1	MDL	7.0	PQL	ug/Kg	UJ	L
Aroclor 5460	9.9		2.1	MDL	7.0	PQL	ug/Kg	J	S, L

Sample ID: SL-202-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	2.2	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, L

Method Category:	SVOA
Method:	8151A
Matrix:	SO

Sample ID: SED-011-SIV-SD-0.0-0.5

Collected: 12/16/2010 2:18:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.9	J	1.3	MDL	4.0	PQL	ug/Kg	J	Z
DICAMBA	0.59	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SED-013-SIV-SD-0.0-0.5

Collected: 12/16/2010 3:26:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.78	J	0.46	MDL	1.4	PQL	ug/Kg	J	Z
DINOSEB	0.92	U	0.92	MDL	2.8	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8151A	Matrix:	SO

Sample ID: SED-017-SIV-SD-0.0-0.5

Collected: 12/16/2010 10:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.9	J	1.4	MDL	4.1	PQL	ug/Kg	J	Z
DICAMBA	0.49	J	0.45	MDL	1.4	PQL	ug/Kg	J	Z
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L
MCPP	220	J	85	MDL	280	PQL	ug/Kg	J	Z

Sample ID: SED-019-SIV-SD-0.0-0.5

Collected: 12/16/2010 9:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.73	J	0.54	MDL	1.6	PQL	ug/Kg	J	Z
DINOSEB	1.1	U	1.1	MDL	3.2	PQL	ug/Kg	R	L

Sample ID: SED-020-SIV-SD-0.0-0.5

Collected: 12/16/2010 11:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.57	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-147-SA5B-SS-0.0-0.5

Collected: 12/16/2010 8:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.92	U	0.92	MDL	2.7	PQL	ug/Kg	R	L
MCPA	260	J	87	MDL	290	PQL	ug/Kg	J	Z

Sample ID: SL-169-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:37:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.91	U	0.91	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-172-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:52:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-173-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-176-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICHLOROPROP	1.4	J	0.84	MDL	1.8	PQL	ug/Kg	J	Z
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-178-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.55	J	0.51	MDL	1.5	PQL	ug/Kg	J	Z
DINOSEB	1.0	U	1.0	MDL	3.1	PQL	ug/Kg	R	L

Sample ID: SL-186-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:56:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	2.7	U	2.7	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-187-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.52	J	0.42	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-189-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.7	U	4.7	MDL	9.7	PQL	ug/Kg	R	Q
DICAMBA	0.49	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z, Q, Q
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L
MCCP	610	U	610	MDL	610	PQL	ug/Kg	R	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-192-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.84	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	1.8	U	1.8	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-194-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.46	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-196-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-198-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:59:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-199-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:23:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L
MCCP	220	J	80	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-202-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:23:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SED-011-SIV-SD-0.0-0.5

Collected: 12/16/2010 2:18:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	95	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SED-013-SIV-SD-0.0-0.5

Collected: 12/16/2010 3:26:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	28	J	19	MDL	380	PQL	ug/Kg	J	Z

Sample ID: SED-017-SIV-SD-0.0-0.5

Collected: 12/16/2010 10:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	51	J	19	MDL	380	PQL	ug/Kg	J	Z

Sample ID: SED-019-SIV-SD-0.0-0.5

Collected: 12/16/2010 9:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	24	J	22	MDL	220	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	120	J	22	MDL	450	PQL	ug/Kg	J	Z
Butylbenzylphthalate	42	J	22	MDL	220	PQL	ug/Kg	J	Z
CHRYSENE	37	J	22	MDL	220	PQL	ug/Kg	J	Z
Di-n-butylphthalate	26	J	22	MDL	220	PQL	ug/Kg	J	Z
FLUORANTHENE	71	J	22	MDL	220	PQL	ug/Kg	J	Z
PYRENE	47	J	22	MDL	220	PQL	ug/Kg	J	Z

Sample ID: SL-147-SA5B-SS-0.0-0.5

Collected: 12/16/2010 8:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	44	J	19	MDL	380	PQL	ug/Kg	J	Z

Sample ID: SL-169-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:37:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	72	J	19	MDL	190	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	23	J	19	MDL	380	PQL	ug/Kg	J	Z
FLUORANTHENE	21	J	19	MDL	190	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	82	J	19	MDL	190	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C	Matrix: SO

Sample ID: SL-173-SA5B-SS-0.0-0.5 Collected: 12/16/2010 1:12:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	49	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-178-SA5B-SS-0.0-0.5 Collected: 12/16/2010 9:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	43	J	21	MDL	430	PQL	ug/Kg	J	Z

Sample ID: SL-186-SA5B-SS-0.0-0.5 Collected: 12/16/2010 10:56:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	45	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-187-SA5B-SS-0.0-0.5 Collected: 12/16/2010 11:19:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	81	J	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-189-SA5B-SS-0.0-0.5 Collected: 12/16/2010 11:25:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DIMETHYLPHENOL	36	U	36	MDL	180	PQL	ug/Kg	UJ	Q
ANILINE	180	U	180	MDL	540	PQL	ug/Kg	UJ	Q
BENZIDINE	1300	U	1300	MDL	3600	PQL	ug/Kg	R	Q

Sample ID: SL-192-SA5B-SS-0.0-0.5 Collected: 12/16/2010 11:04:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	47	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-194-SA5B-SS-0.0-0.5 Collected: 12/16/2010 1:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	20	J	18	MDL	370	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-202-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:23:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	59	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	57	J	18	MDL	180	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SED-011-SIV-SD-0.0-0.5

Collected: 12/16/2010 2:18:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.40	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.5	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.6	J	6.6	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.5	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SED-013-SIV-SD-0.0-0.5

Collected: 12/16/2010 3:26:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.7	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.3	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SED-017-SIV-SD-0.0-0.5

Collected: 12/16/2010 10:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	1.8	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SED-019-SIV-SD-0.0-0.5

Collected: 12/16/2010 9:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	6.0	J	2.2	MDL	11	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	9.7	J	4.5	MDL	11	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SED-019-SIV-SD-0.0-0.5

Collected: 12/16/2010 9:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	8.6	J	4.5	MDL	11	PQL	ug/Kg	J	Z
NAPHTHALENE	9.0	J	4.5	MDL	11	PQL	ug/Kg	J	Z

Sample ID: SL-169-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:37:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.90	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:52:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.86	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.82	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.94	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-173-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:12:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.94	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	1.4	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
FLUORENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-176-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.95	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.0	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.4	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-178-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.86	J	0.86	MDL	2.1	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.3	J	0.86	MDL	2.1	PQL	ug/Kg	J	Z
ANTHRACENE	0.87	J	0.43	MDL	2.1	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.8	J	7.7	MDL	23	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.2	J	0.86	MDL	2.1	PQL	ug/Kg	J	Z
NAPHTHALENE	1.2	J	0.86	MDL	2.1	PQL	ug/Kg	J	Z

Sample ID: SL-186-SA5B-SS-0.0-0.5

Collected: 12/16/2010 10:56:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.6	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.94	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.6	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-189-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.85	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.96	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Diethylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	UJ	Q

Sample ID: SL-192-SA5B-SS-0.0-0.5

Collected: 12/16/2010 11:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.44	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	1.1	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.80	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.7	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-194-SA5B-SS-0.0-0.5

Collected: 12/16/2010 1:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.45	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	1.2	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA	
Method:	8270C SIM	Matrix: SO

Sample ID: SL-194-SA5B-SS-0.0-0.5 Collected: 12/16/2010 1:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	1.5	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-196-SA5B-SS-0.0-0.5 Collected: 12/16/2010 1:12:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.96	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.1	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	0.41	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.3	J	6.3	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.93	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.96	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-198-SA5B-SS-0.0-0.5 Collected: 12/16/2010 10:59:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	3.9	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	8.6	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	7.6	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
FLUORANTHENE	4.5	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
PHENANTHRENE	4.7	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
PYRENE	4.4	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z

Sample ID: SL-199-SA5B-SS-0.0-0.5 Collected: 12/16/2010 1:23:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.5	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.94	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.77	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-202-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:23:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	6.4	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	6.0	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	4.4	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
CHRYSENE	8.6	J	1.8	MDL	8.9	PQL	ug/Kg	J	Z
PHENANTHRENE	4.8	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE042

Method Blank Outlier Report

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35408BB221619	12/30/2010 4:19:00 PM	CALCIUM PHOSPHORUS TIN	5.92 mg/Kg 1.80 mg/Kg 1.23 mg/Kg	SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SED-011-SIV-SD-0.0-0.5(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SED-013-SIV-SD-0.0-0.5(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SED-017-SIV-SD-0.0-0.5(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SED-019-SIV-SD-0.0-0.5(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SED-020-SIV-SD-0.0-0.5(RES)	TIN	2.28 mg/Kg	2.28U mg/Kg
SL-147-SA5B-SS-0.0-0.5(RES)	TIN	2.28 mg/Kg	2.28U mg/Kg
SL-169-SA5B-SS-0.0-0.5(RES)	TIN	2.79 mg/Kg	2.79U mg/Kg
SL-172-SA5B-SS-0.0-0.5(RES)	TIN	2.29 mg/Kg	2.29U mg/Kg
SL-173-SA5B-SS-0.0-0.5(RES)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-176-SA5B-SS-0.0-0.5(RES)	TIN	2.12 mg/Kg	2.12U mg/Kg
SL-178-SA5B-SS-0.0-0.5(RES)	TIN	3.39 mg/Kg	3.39U mg/Kg
SL-186-SA5B-SS-0.0-0.5(RES)	TIN	2.43 mg/Kg	2.43U mg/Kg
SL-187-SA5B-SS-0.0-0.5(RES)	TIN	2.27 mg/Kg	2.27U mg/Kg
SL-189-SA5B-SS-0.0-0.5(RES)	TIN	2.31 mg/Kg	2.31U mg/Kg
SL-192-SA5B-SS-0.0-0.5(RES)	TIN	2.02 mg/Kg	2.02U mg/Kg
SL-194-SA5B-SS-0.0-0.5(RES)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-196-SA5B-SS-0.0-0.5(RES)	TIN	2.24 mg/Kg	2.24U mg/Kg
SL-198-SA5B-SS-0.0-0.5(RES)	TIN	2.30 mg/Kg	2.30U mg/Kg
SL-199-SA5B-SS-0.0-0.5(RES)	TIN	2.28 mg/Kg	2.28U mg/Kg
SL-202-SA5B-SS-0.0-0.5(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35426BB221518A	12/30/2010 3:18:00 PM	COPPER	0.111 mg/Kg	SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5B-SS-0.0-0.5MS (SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5)	FLUORIDE	77	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	4,4'-DDE ALPHA-BHC	- -	166 -	18.00-161.00 10.00-129.00	- 53 (50.00)	4,4'-DDE ALPHA-BHC	J(all detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	2,4-DB DICAMBA DINOSEB	- - -	273 148 -	20.00-170.00 33.00-120.00 1.00-44.00	87 (50.00) 52 (50.00) 85 (35.00)	2,4-DB DICAMBA DINOSEB	J(all detects)
SL-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	DALAPON MCPP	0 0	- -	12.00-86.00 16.00-174.00	200 (50.00) 200 (50.00)	DALAPON MCPP	J(all detects) R(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5)	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	299 188 181 213 137 156 290 183 163 184 289 354	300 198 179 238 142 167 369 192 167 185 314 384	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - - - - -	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) Pb, Zn No Qual, >4x
SL-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5)	ANTIMONY	62	56	75.00-125.00	-	ANTIMONY	J(all detects) JJ(all non-detects)
SL-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5)	MOLYBDENUM	169	177	75.00-125.00	-	MOLYBDENUM	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5)	BARIUM	599	627	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5)	ALUMINUM CALCIUM MAGNESIUM POTASSIUM TITANIUM	1508 - 156 - 288	1850 136 302 144 359	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM CALCIUM MAGNESIUM POTASSIUM TITANIUM	J(all detects) Al, Ca, Mg, Ti No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5)	IRON	-871	1520	75.00-125.00	-	IRON	No Qual, >4x
SL-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5)	MANGANESE PHOSPHORUS	62 64	174 -	75.00-125.00 75.00-125.00	- -	MANGANESE PHOSPHORUS	J(all detects) UJ(all non-detects) Mn No Qual, >4x

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	BENZOIC ACID	-	-	10.00-173.00	78 (30.00)	BENZOIC ACID	J(all detects)
SL-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)
SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	2,4-DIMETHYLPHENOL ANILINE	- -	75 26	78.00-110.00 35.00-95.00	- 34 (30.00)	2,4-DIMETHYLPHENOL ANILINE	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT	169	-	39.00-167.00	37 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects)
SL-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	Diethylphthalate	81	81	87.00-131.00	-	Diethylphthalate	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-176-SA5B-SS-0.0-0.5DUP (SED-011-SIV-SD-0.0-0.5 SED -013-SIV-SD-0.0-0.5 SED -017-SIV-SD-0.0-0.5 SED -019-SIV-SD-0.0-0.5 SED -020-SIV-SD-0.0-0.5 SL -147-SA5B-SS-0.0-0.5 SL -169-SA5B-SS-0.0-0.5 SL -172-SA5B-SS-0.0-0.5 SL -173-SA5B-SS-0.0-0.5 SL -176-SA5B-SS-0.0-0.5)	FLUORIDE	38	20.00	No Qual OK by difference

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-189-SA5B-SS-0.0-0.5DUP (SED-011-SIV-SD-0.0-0.5 SED -013-SIV-SD-0.0-0.5 SED -017-SIV-SD-0.0-0.5 SED -019-SIV-SD-0.0-0.5 SED -020-SIV-SD-0.0-0.5 SL -147-SA5B-SS-0.0-0.5 SL -169-SA5B-SS-0.0-0.5 SL -172-SA5B-SS-0.0-0.5 SL -173-SA5B-SS-0.0-0.5 SL -176-SA5B-SS-0.0-0.5 SL -178-SA5B-SS-0.0-0.5 SL -186-SA5B-SS-0.0-0.5 SL -187-SA5B-SS-0.0-0.5 SL -189-SA5B-SS-0.0-0.5 SL -192-SA5B-SS-0.0-0.5 SL -194-SA5B-SS-0.0-0.5 SL -196-SA5B-SS-0.0-0.5 SL -198-SA5B-SS-0.0-0.5 SL -199-SA5B-SS-0.0-0.5 SL -202-SA5B-SS-0.0-0.5)	ARSENIC BARIUM BERYLLIUM CADMIUM CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	36 24 27 34 29 21 27 25 24 30	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Cd No Qual OK by difference

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: PrepDE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03564AQ242306A P03564AY242248A (SED -011-SIV-SD-0.0-0.5 SED -013-SIV-SD-0.0-0.5 SED -017-SIV-SD-0.0-0.5 SED -019-SIV-SD-0.0-0.5 SED -020-SIV-SD-0.0-0.5 SL -147-SA5B-SS-0.0-0.5 SL -169-SA5B-SS-0.0-0.5 SL -172-SA5B-SS-0.0-0.5 SL -173-SA5B-SS-0.0-0.5 SL -176-SA5B-SS-0.0-0.5 SL -178-SA5B-SS-0.0-0.5 SL -186-SA5B-SS-0.0-0.5 SL -187-SA5B-SS-0.0-0.5 SL -189-SA5B-SS-0.0-0.5 SL -192-SA5B-SS-0.0-0.5 SL -194-SA5B-SS-0.0-0.5 SL -196-SA5B-SS-0.0-0.5 SL -198-SA5B-SS-0.0-0.5 SL -199-SA5B-SS-0.0-0.5 SL -202-SA5B-SS-0.0-0.5)	Aroclor 5442	68	61	75.00-125.00	-	Aroclor 5432, 5442, 5460	J (all detects) UJ (all non-detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03622AQ242120A (SED -011-SIV-SD-0.0-0.5 SED -013-SIV-SD-0.0-0.5 SED -017-SIV-SD-0.0-0.5 SED -019-SIV-SD-0.0-0.5 SED -020-SIV-SD-0.0-0.5 SL -147-SA5B-SS-0.0-0.5 SL -169-SA5B-SS-0.0-0.5 SL -172-SA5B-SS-0.0-0.5 SL -173-SA5B-SS-0.0-0.5 SL -176-SA5B-SS-0.0-0.5 SL -178-SA5B-SS-0.0-0.5 SL -186-SA5B-SS-0.0-0.5 SL -187-SA5B-SS-0.0-0.5 SL -189-SA5B-SS-0.0-0.5 SL -192-SA5B-SS-0.0-0.5 SL -194-SA5B-SS-0.0-0.5 SL -196-SA5B-SS-0.0-0.5 SL -198-SA5B-SS-0.0-0.5 SL -199-SA5B-SS-0.0-0.5 SL -202-SA5B-SS-0.0-0.5)	DINOSEB	5	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Surrogate Outlier Report

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-011-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	188	20.00-120.00	All Target Analytes	J (all detects)
SED-013-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	241	20.00-120.00	All Target Analytes	J(all detects)
SED-017-SIV-SD-0.0-0.5	TETRACHLORO-M-XYLENE	48	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SED-019-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	190	20.00-120.00	All Target Analytes	No Qual Diluted Out
SED-020-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	176	20.00-120.00	All Target Analytes	J(all detects)
SL-176-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	No Qual Diluted Out
SL-178-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	216	20.00-120.00	All Target Analytes	No Qual Diluted Out
SL-187-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SL-192-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	No Qual Diluted Out
SL-194-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SL-196-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SL-202-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	289	20.00-120.00	All Target Analytes	J(all detects)

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-178-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	145	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-199-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	124 151	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-172-SA5B-SS-0.0-0.5	FLUORIDE	J	0.95	1.1	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	SODIUM TIN	J	75.3	108	PQL	mg/Kg	J (all detects)
		J	2.50	10.8	PQL	mg/Kg	
SED-013-SIV-SD-0.0-0.5	BORON SODIUM TIN	J	4.43	5.75	PQL	mg/Kg	J (all detects)
		J	112	115	PQL	mg/Kg	
		J	2.83	11.5	PQL	mg/Kg	
SED-017-SIV-SD-0.0-0.5	SODIUM TIN Zirconium	J	79.4	111	PQL	mg/Kg	J (all detects)
		J	2.51	11.1	PQL	mg/Kg	
		J	1.45	5.54	PQL	mg/Kg	
SED-019-SIV-SD-0.0-0.5	BORON TIN Zirconium	J	6.31	6.48	PQL	mg/Kg	J (all detects)
		J	3.05	13.0	PQL	mg/Kg	
		J	1.15	6.48	PQL	mg/Kg	
SED-020-SIV-SD-0.0-0.5	BORON SODIUM TIN	J	3.88	5.33	PQL	mg/Kg	J (all detects)
		J	60.8	107	PQL	mg/Kg	
		J	2.28	10.7	PQL	mg/Kg	
SL-147-SA5B-SS-0.0-0.5	BORON TIN Zirconium	J	4.18	5.72	PQL	mg/Kg	J (all detects)
		J	2.28	11.4	PQL	mg/Kg	
		J	1.47	5.72	PQL	mg/Kg	
SL-169-SA5B-SS-0.0-0.5	SODIUM TIN Zirconium	J	105	110	PQL	mg/Kg	J (all detects)
		J	2.79	11.0	PQL	mg/Kg	
		J	1.96	5.50	PQL	mg/Kg	
SL-172-SA5B-SS-0.0-0.5	BORON SODIUM TIN Zirconium	J	4.12	5.30	PQL	mg/Kg	J (all detects)
		J	72.7	106	PQL	mg/Kg	
		J	2.29	10.6	PQL	mg/Kg	
		J	1.11	5.30	PQL	mg/Kg	
SL-173-SA5B-SS-0.0-0.5	BORON SODIUM TIN Zirconium	J	3.94	5.18	PQL	mg/Kg	J (all detects)
		J	79.3	104	PQL	mg/Kg	
		J	2.36	10.4	PQL	mg/Kg	
		J	1.53	5.18	PQL	mg/Kg	
SL-176-SA5B-SS-0.0-0.5	BORON TIN Zirconium	J	3.62	5.01	PQL	mg/Kg	J (all detects)
		J	2.12	10.0	PQL	mg/Kg	
		J	1.27	5.01	PQL	mg/Kg	
SL-178-SA5B-SS-0.0-0.5	BORON TIN Zirconium	J	5.32	6.23	PQL	mg/Kg	J (all detects)
		J	3.39	12.5	PQL	mg/Kg	
		J	1.36	6.23	PQL	mg/Kg	
SL-186-SA5B-SS-0.0-0.5	BORON SODIUM TIN Zirconium	J	4.32	5.27	PQL	mg/Kg	J (all detects)
		J	104	105	PQL	mg/Kg	
		J	2.43	10.5	PQL	mg/Kg	
		J	1.98	5.27	PQL	mg/Kg	
SL-187-SA5B-SS-0.0-0.5	BORON TIN Zirconium	J	3.97	5.24	PQL	mg/Kg	J (all detects)
		J	2.27	10.5	PQL	mg/Kg	
		J	2.18	5.24	PQL	mg/Kg	
SL-189-SA5B-SS-0.0-0.5	BORON SODIUM TIN Zirconium	J	4.10	5.11	PQL	mg/Kg	J (all detects)
		J	91.0	102	PQL	mg/Kg	
		J	2.31	10.2	PQL	mg/Kg	
		J	2.16	5.11	PQL	mg/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-192-SA5B-SS-0.0-0.5	BORON	J	3.00	5.13	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.3	103	PQL	mg/Kg	
	TIN	J	2.02	10.3	PQL	mg/Kg	
	Zirconium	J	1.38	5.13	PQL	mg/Kg	
SL-194-SA5B-SS-0.0-0.5	BORON	J	3.76	5.43	PQL	mg/Kg	J (all detects)
	SODIUM	J	98.5	109	PQL	mg/Kg	
	TIN	J	2.67	10.9	PQL	mg/Kg	
	Zirconium	J	1.63	5.43	PQL	mg/Kg	
SL-196-SA5B-SS-0.0-0.5	BORON	J	3.62	5.02	PQL	mg/Kg	J (all detects)
	TIN	J	2.24	10.0	PQL	mg/Kg	
	Zirconium	J	2.34	5.02	PQL	mg/Kg	
SL-198-SA5B-SS-0.0-0.5	BORON	J	4.82	5.14	PQL	mg/Kg	J (all detects)
	SODIUM	J	96.2	103	PQL	mg/Kg	
	TIN	J	2.30	10.3	PQL	mg/Kg	
	Zirconium	J	1.81	5.14	PQL	mg/Kg	
SL-199-SA5B-SS-0.0-0.5	BORON	J	4.89	5.32	PQL	mg/Kg	J (all detects)
	SODIUM	J	93.2	106	PQL	mg/Kg	
	TIN	J	2.28	10.6	PQL	mg/Kg	
	Zirconium	J	1.53	5.32	PQL	mg/Kg	
SL-202-SA5B-SS-0.0-0.5	BORON	J	4.42	5.31	PQL	mg/Kg	J (all detects)
	SODIUM	J	93.3	106	PQL	mg/Kg	
	TIN	J	2.61	10.6	PQL	mg/Kg	
	Zirconium	J	1.47	5.31	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	ANTIMONY	J	0.189	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.148	0.441	PQL	mg/Kg	
	SILVER	J	0.0437	0.110	PQL	mg/Kg	
SED-013-SIV-SD-0.0-0.5	ANTIMONY	J	0.188	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.207	0.438	PQL	mg/Kg	
	SILVER	J	0.0981	0.109	PQL	mg/Kg	
SED-017-SIV-SD-0.0-0.5	ANTIMONY	J	0.210	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.120	0.443	PQL	mg/Kg	
SED-019-SIV-SD-0.0-0.5	SELENIUM	J	0.202	0.523	PQL	mg/Kg	J (all detects)
SED-020-SIV-SD-0.0-0.5	ANTIMONY	J	0.191	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0829	0.418	PQL	mg/Kg	
	SILVER	J	0.0561	0.105	PQL	mg/Kg	
SL-147-SA5B-SS-0.0-0.5	SELENIUM	J	0.143	0.458	PQL	mg/Kg	J (all detects)
SL-169-SA5B-SS-0.0-0.5	SELENIUM	J	0.132	0.445	PQL	mg/Kg	J (all detects)
SL-172-SA5B-SS-0.0-0.5	SELENIUM	J	0.119	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0762	0.106	PQL	mg/Kg	
SL-173-SA5B-SS-0.0-0.5	SELENIUM	J	0.118	0.410	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0930	0.103	PQL	mg/Kg	
SL-176-SA5B-SS-0.0-0.5	ANTIMONY	J	0.192	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0667	0.421	PQL	mg/Kg	
SL-178-SA5B-SS-0.0-0.5	SELENIUM	J	0.183	0.508	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-186-SA5B-SS-0.0-0.5	SELENIUM	J	0.109	0.409	PQL	mg/Kg	J (all detects)
SL-187-SA5B-SS-0.0-0.5	ANTIMONY	J	0.188	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.117	0.424	PQL	mg/Kg	
	SILVER	J	0.0889	0.106	PQL	mg/Kg	
SL-189-SA5B-SS-0.0-0.5	ANTIMONY	J	0.212	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.143	0.430	PQL	mg/Kg	
	SILVER	J	0.100	0.107	PQL	mg/Kg	
SL-192-SA5B-SS-0.0-0.5	SELENIUM	J	0.118	0.410	PQL	mg/Kg	J (all detects)
SL-194-SA5B-SS-0.0-0.5	ANTIMONY	J	0.209	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.431	PQL	mg/Kg	
	SILVER	J	0.0775	0.108	PQL	mg/Kg	
SL-196-SA5B-SS-0.0-0.5	SELENIUM	J	0.135	0.401	PQL	mg/Kg	J (all detects)
SL-198-SA5B-SS-0.0-0.5	SELENIUM	J	0.126	0.419	PQL	mg/Kg	J (all detects)
SL-199-SA5B-SS-0.0-0.5	ANTIMONY	J	0.157	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.204	0.421	PQL	mg/Kg	
	SILVER	J	0.0725	0.105	PQL	mg/Kg	
SL-202-SA5B-SS-0.0-0.5	ANTIMONY	J	0.189	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0909	0.412	PQL	mg/Kg	
	SILVER	J	0.0856	0.103	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.60	1.1	PQL	mg/Kg	J (all detects)
SED-013-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.95	1.1	PQL	mg/Kg	J (all detects)
SED-017-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.56	1.1	PQL	mg/Kg	J (all detects)
SL-172-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-173-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.40	1.1	PQL	mg/Kg	J (all detects)
SL-176-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.90	1.1	PQL	mg/Kg	J (all detects)
SL-186-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.88	1.1	PQL	mg/Kg	J (all detects)
SL-187-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.69	1.1	PQL	mg/Kg	J (all detects)
SL-189-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.58	1.1	PQL	mg/Kg	J (all detects)
SL-194-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-196-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.72	1.1	PQL	mg/Kg	J (all detects)
SL-198-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.70	1.1	PQL	mg/Kg	J (all detects)
SL-199-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.76	1.1	PQL	mg/Kg	J (all detects)
SL-202-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.86	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-013-SIV-SD-0.0-0.5	MERCURY	J	0.0198	0.109	PQL	mg/Kg	J (all detects)
SED-017-SIV-SD-0.0-0.5	MERCURY	J	0.0741	0.107	PQL	mg/Kg	J (all detects)
SED-020-SIV-SD-0.0-0.5	MERCURY	J	0.0051	0.105	PQL	mg/Kg	J (all detects)
SL-169-SA5B-SS-0.0-0.5	MERCURY	J	0.0119	0.110	PQL	mg/Kg	J (all detects)
SL-173-SA5B-SS-0.0-0.5	MERCURY	J	0.0053	0.0986	PQL	mg/Kg	J (all detects)
SL-176-SA5B-SS-0.0-0.5	MERCURY	J	0.0109	0.104	PQL	mg/Kg	J (all detects)
SL-186-SA5B-SS-0.0-0.5	MERCURY	J	0.0212	0.102	PQL	mg/Kg	J (all detects)
SL-187-SA5B-SS-0.0-0.5	MERCURY	J	0.0130	0.104	PQL	mg/Kg	J (all detects)
SL-194-SA5B-SS-0.0-0.5	MERCURY	J	0.101	0.103	PQL	mg/Kg	J (all detects)
SL-196-SA5B-SS-0.0-0.5	MERCURY	J	0.0267	0.0989	PQL	mg/Kg	J (all detects)
SL-198-SA5B-SS-0.0-0.5	MERCURY	J	0.0108	0.0992	PQL	mg/Kg	J (all detects)
SL-199-SA5B-SS-0.0-0.5	MERCURY	J	0.0067	0.100	PQL	mg/Kg	J (all detects)
SL-202-SA5B-SS-0.0-0.5	MERCURY	J	0.0503	0.102	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	ENDOSULFAN I	J	0.13	0.18	PQL	ug/Kg	J (all detects)
SED-013-SIV-SD-0.0-0.5	DELTA-BHC	J	0.071	0.19	PQL	ug/Kg	J (all detects)
SED-019-SIV-SD-0.0-0.5	DELTA-BHC	J	0.29	1.1	PQL	ug/Kg	J (all detects)
SED-020-SIV-SD-0.0-0.5	DELTA-BHC	J	0.075	0.18	PQL	ug/Kg	J (all detects)
SL-169-SA5B-SS-0.0-0.5	ALPHA-BHC	J	0.057	0.19	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.056	0.19	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.036	0.18	PQL	ug/Kg	
SL-172-SA5B-SS-0.0-0.5	ALPHA-BHC	J	0.090	0.18	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.15	0.18	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.036	0.18	PQL	ug/Kg	
SL-176-SA5B-SS-0.0-0.5	HEPTACHLOR	J	0.46	0.87	PQL	ug/Kg	J (all detects)
SL-186-SA5B-SS-0.0-0.5	BETA-BHC	J	0.080	0.18	PQL	ug/Kg	J (all detects)
SL-194-SA5B-SS-0.0-0.5	ALPHA-BHC	J	0.14	0.18	PQL	ug/Kg	J (all detects)
SL-196-SA5B-SS-0.0-0.5	ALDRIN	J	0.084	0.17	PQL	ug/Kg	J (all detects)
	ALPHA-BHC	J	0.043	0.17	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.048	0.17	PQL	ug/Kg	
SL-198-SA5B-SS-0.0-0.5	BETA-BHC	J	0.14	0.18	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	AROCOLOR 1260 Aroclor 5460	J	1.1	1.9	PQL	ug/Kg	J (all detects)
		J	2.6	3.6	PQL	ug/Kg	
SED-020-SIV-SD-0.0-0.5	AROCOLOR 1254 Aroclor 5460	J	2.5	3.7	PQL	ug/Kg	J (all detects)
		J	6.6	7.2	PQL	ug/Kg	
SL-169-SA5B-SS-0.0-0.5	Aroclor 5460	J	7.0	7.5	PQL	ug/Kg	J (all detects)
SL-172-SA5B-SS-0.0-0.5	AROCOLOR 1260 Aroclor 5460	J	0.92	1.8	PQL	ug/Kg	J (all detects)
		J	2.1	3.5	PQL	ug/Kg	
SL-186-SA5B-SS-0.0-0.5	AROCOLOR 1254 AROCOLOR 1260 Aroclor 5460	J	3.0	3.7	PQL	ug/Kg	J (all detects)
		J	1.1	3.7	PQL	ug/Kg	
		J	5.0	7.1	PQL	ug/Kg	
SL-189-SA5B-SS-0.0-0.5	AROCOLOR 1254 AROCOLOR 1260 Aroclor 5460	J	1.3	1.8	PQL	ug/Kg	J (all detects)
		J	0.86	1.8	PQL	ug/Kg	
		J	2.7	3.5	PQL	ug/Kg	
SL-192-SA5B-SS-0.0-0.5	AROCOLOR 1254 AROCOLOR 1260	J	3.3	9.1	PQL	ug/Kg	J (all detects)
		J	5.5	9.1	PQL	ug/Kg	
SL-194-SA5B-SS-0.0-0.5	Aroclor 5460	J	3.0	3.7	PQL	ug/Kg	J (all detects)
SL-198-SA5B-SS-0.0-0.5	Aroclor 5460	J	3.2	3.5	PQL	ug/Kg	J (all detects)
SL-202-SA5B-SS-0.0-0.5	Aroclor 5460	J	2.2	3.5	PQL	ug/Kg	J (all detects)

Method: 8151A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	2,4-D DICAMBA	J	1.9	4.0	PQL	ug/Kg	J (all detects)
		J	0.59	1.3	PQL	ug/Kg	
SED-013-SIV-SD-0.0-0.5	DICAMBA	J	0.78	1.4	PQL	ug/Kg	J (all detects)
SED-017-SIV-SD-0.0-0.5	2,4-D DICAMBA MCP	J	1.9	4.1	PQL	ug/Kg	J (all detects)
		J	0.49	1.4	PQL	ug/Kg	
		J	220	280	PQL	ug/Kg	
SED-019-SIV-SD-0.0-0.5	DICAMBA	J	0.73	1.6	PQL	ug/Kg	J (all detects)
SED-020-SIV-SD-0.0-0.5	DICAMBA	J	0.57	1.3	PQL	ug/Kg	J (all detects)
SL-147-SA5B-SS-0.0-0.5	MCP	J	260	290	PQL	ug/Kg	J (all detects)
SL-176-SA5B-SS-0.0-0.5	DICHLOROPROP	J	1.4	1.8	PQL	ug/Kg	J (all detects)
SL-178-SA5B-SS-0.0-0.5	DICAMBA	J	0.55	1.5	PQL	ug/Kg	J (all detects)
SL-187-SA5B-SS-0.0-0.5	DICAMBA	J	0.52	1.3	PQL	ug/Kg	J (all detects)
SL-189-SA5B-SS-0.0-0.5	DICAMBA	J	0.49	1.3	PQL	ug/Kg	J (all detects)
SL-192-SA5B-SS-0.0-0.5	DICAMBA	J	0.84	1.3	PQL	ug/Kg	J (all detects)
SL-194-SA5B-SS-0.0-0.5	DICAMBA	J	0.46	1.3	PQL	ug/Kg	J (all detects)
SL-199-SA5B-SS-0.0-0.5	MCP	J	220	270	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	95	370	PQL	ug/Kg	J (all detects)
SED-013-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	28	380	PQL	ug/Kg	J (all detects)
SED-017-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	51	380	PQL	ug/Kg	J (all detects)
SED-019-SIV-SD-0.0-0.5	BENZO(A)ANTHRACENE	J	24	220	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	120	450	PQL	ug/Kg	
	Butylbenzylphthalate	J	42	220	PQL	ug/Kg	
	CHRYSENE	J	37	220	PQL	ug/Kg	
	Di-n-butylphthalate	J	26	220	PQL	ug/Kg	
	FLUORANTHENE	J	71	220	PQL	ug/Kg	
	PYRENE	J	47	220	PQL	ug/Kg	
SL-147-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	44	380	PQL	ug/Kg	J (all detects)
SL-169-SA5B-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	72	190	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	380	PQL	ug/Kg	
	FLUORANTHENE	J	21	190	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	82	190	PQL	ug/Kg	
SL-173-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	49	360	PQL	ug/Kg	J (all detects)
SL-178-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	43	430	PQL	ug/Kg	J (all detects)
SL-186-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	45	360	PQL	ug/Kg	J (all detects)
SL-187-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	81	350	PQL	ug/Kg	J (all detects)
SL-192-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	47	360	PQL	ug/Kg	J (all detects)
SL-194-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	370	PQL	ug/Kg	J (all detects)
SL-202-SA5B-SS-0.0-0.5	FLUORANTHENE	J	59	180	PQL	ug/Kg	J (all detects)
	PYRENE	J	57	180	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	ANTHRACENE	J	0.40	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.5	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	Di-n-octylphthalate	J	8.6	20	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.8	PQL	ug/Kg	
SED-013-SIV-SD-0.0-0.5	BENZO(A)ANTHRACENE	J	1.7	1.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.4	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.9	PQL	ug/Kg	
SED-017-SIV-SD-0.0-0.5	CHRYSENE	J	1.8	1.9	PQL	ug/Kg	J (all detects)
SED-019-SIV-SD-0.0-0.5	ANTHRACENE	J	6.0	11	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	9.7	11	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	8.6	11	PQL	ug/Kg	
	NAPHTHALENE	J	9.0	11	PQL	ug/Kg	
SL-169-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	0.90	1.9	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-172-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.86	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.5	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.82	1.8	PQL	ug/Kg	
SL-173-SA5B-SS-0.0-0.5	NAPHTHALENE	J	0.94	1.8	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	1.6	1.8	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.94	1.8	PQL	ug/Kg	
	ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.6	1.8	PQL	ug/Kg	
SL-176-SA5B-SS-0.0-0.5	FLUORENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	1-METHYLNAPHTHALENE	J	0.95	1.8	PQL	ug/Kg	
	2-METHYLNAPHTHALENE	J	1.0	1.8	PQL	ug/Kg	
SL-178-SA5B-SS-0.0-0.5	NAPHTHALENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	1-METHYLNAPHTHALENE	J	0.86	2.1	PQL	ug/Kg	
	2-METHYLNAPHTHALENE	J	1.3	2.1	PQL	ug/Kg	
	ANTHRACENE	J	0.87	2.1	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.8	23	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.2	2.1	PQL	ug/Kg	
SL-186-SA5B-SS-0.0-0.5	NAPHTHALENE	J	1.2	2.1	PQL	ug/Kg	J (all detects)
	1-METHYLNAPHTHALENE	J	1.3	1.8	PQL	ug/Kg	
	2-METHYLNAPHTHALENE	J	1.6	1.8	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.94	1.8	PQL	ug/Kg	
SL-189-SA5B-SS-0.0-0.5	DIBENZO(A,H)ANTHRACENE	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	0.85	1.8	PQL	ug/Kg	
SL-192-SA5B-SS-0.0-0.5	CHRYSENE	J	0.96	1.8	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	0.44	1.8	PQL	ug/Kg	
	ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.80	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.7	1.8	PQL	ug/Kg	
SL-194-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	0.45	1.8	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.2	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.5	1.8	PQL	ug/Kg	
SL-196-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.96	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.1	1.8	PQL	ug/Kg	
	ANTHRACENE	J	0.41	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.3	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.93	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.96	1.8	PQL	ug/Kg	
SL-198-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	3.9	8.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	8.6	8.9	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	7.6	8.9	PQL	ug/Kg	
	FLUORANTHENE	J	4.5	8.9	PQL	ug/Kg	
	PHENANTHRENE	J	4.7	8.9	PQL	ug/Kg	
	PYRENE	J	4.4	8.9	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE042

Laboratory: LL

EDD Filename: DE042_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-199-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.0	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.5	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.94	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.77	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.2	1.8	PQL	ug/Kg	
SL-202-SA5B-SS-0.0-0.5	PYRENE	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	6.4	8.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	6.0	8.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.4	8.9	PQL	ug/Kg	
	CHRYSENE	J	8.6	8.9	PQL	ug/Kg	
	PHENANTHRENE	J	4.8	8.9	PQL	ug/Kg	

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (As, Ba, Ca, Fe, Pb, Mg, Mn, Ti, Zn > 4x)
VII.	Duplicate Sample Analysis	N	Dup (Cd < 5x)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/UJ/A (A)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	—	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SED-011-SIV-SD-0.0-0.5	11	SL-178-SA5B-SS-0.0-0.05	21	SL-189-SA5B-SS-0.0-0.05MS	31	
2	SED-013-SIV-SD-0.0-0.5	12	SL-186-SA5B-SS-0.0-0.05	22	SL-189-SA5B-SS-0.0-0.05MSD	32	
3	SED-017-SIV-SD-0.0-0.5	13	SL-187-SA5B-SS-0.0-0.05	23	SL-189-SA5B-SS-0.0-0.05DUP	33	
4	SED-019-SIV-SD-0.0-0.5	14	SL-189-SA5B-SS-0.0-0.05	24		34	
5	SED-020-SIV-SD-0.0-0.5	15	SL-192-SA5B-SS-0.0-0.05	25		35	
6	SL-147-SA5B-SS-0.0-0.05	16	SL-194-SA5B-SS-0.0-0.05	26		36	
7	SL-169-SA5B-SS-0.0-0.05	17	SL-196-SA5B-SS-0.0-0.05	27		37	
8	SL-172-SA5B-SS-0.0-0.05	18	SL-198-SA5B-SS-0.0-0.05	28		38	
9	SL-173-SA5B-SS-0.0-0.05	19	SL-199-SA5B-SS-0.0-0.05	29		39	
10	SL-176-SA5B-SS-0.0-0.05	20	SL-202-SA5B-SS-0.0-0.05	30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET

Sample Specific Element Reference

All circled elements are applicable to each sample.

[illegible]

Comments: Mercury by CVAA if performed

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: 100x x ICPMS (2dil)

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: All Reason: B

Analyte	Maximum ICB/CCB ^a (ug/L)	Action Limit	1	2	3	5	6	7	8	9	10	12	13	14	15	16	17	19	20
Sb	0.33	0.33	0.19	0.19	0.21	0.19	0.32	0.24	0.21	0.22	0.19	0.22	0.19	0.21	0.25	0.21	0.21	0.16	0.19

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.



QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: DE042

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6167481BKG

Serial Dilution Lab Sample ID: 6167481L

Batch ID(s): P35408B, P35426B

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		139327.9700		135574.3500		3		P
Antimony	121	0.9861	B	1.5000	U	100		MS
Arsenic	75	25.4300		30.8400		21		MS
Barium	137	551.8000		637.5000		16	E	MS
Beryllium	9	2.9430		3.3320		13		MS
Boron		40.1100	B	70.0000	B	75		P
Cadmium	111	1.0690		1.1805	B	10		MS
Calcium		30495.6600		32283.6000		6		P
Chromium	52	94.9100		127.5000		34	E	MS
Cobalt	59	30.4400		51.2000		68	E	MS
Copper	63	50.4500		70.7500		40	E	MS
Iron		183079.3200		180921.8500		1		P
Lead	208	64.1700		76.2000		19	E	MS
Lithium		161.7500		180.7000		12	E	P
Magnesium		32831.9100		34726.7500		6		P
Manganese		3319.5000		3469.5000		5		P
Molybdenum	98	3.9050		6.5800		69		MS
Nickel	60	64.0700		89.9500		40	E	MS
Phosphorus		2368.3100		2452.7500		4		P
Potassium		27995.6800		29640.5000		6		P
Selenium	78	0.6638	B	1.0000	U	100		MS
Silver	107	0.4671	B	1.8965	B	306		MS
Sodium		889.4100	B	1865.0000	U	100		P
Strontium		224.0500		231.1000		3		P
Thallium	203	1.6650		1.8905	B	14		MS
Tin		22.5800	B	50.0000	U	100		P
Titanium		11411.6600		11969.7000		5		P
Vanadium	51	176.8000		236.6500		34	E	MS
Zinc	66	266.9000		297.4000		11		MS
Zirconium		21.0900	B	42.0000	U	100		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:

P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:

U= Below MDL

B= Below LOQ

FLAGS:

E = Matrix Effects exist as proven by
Serial Dilution or Spiked Dilution

DE042 3483

SAMPLE DELIVERY GROUP

DE043

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	TB-121610	6167530	TB	5030B	8015M	III
16-Dec-2010	TB-121610	6167530	TB	5030B	8260B	III
16-Dec-2010	TB-121610	6167530	TB	5030B	8260B SIM	III
16-Dec-2010	SL-286-SA5B-SS-0.0-0.5	6167527	N	3050B	6010B	III
16-Dec-2010	SL-286-SA5B-SS-0.0-0.5	6167527	N	3050B	6020	III
16-Dec-2010	SL-286-SA5B-SS-0.0-0.5	6167527	N	3060A	7199	III
16-Dec-2010	SL-286-SA5B-SS-0.0-0.5	6167527	N	3550B	8081A	III
16-Dec-2010	SL-286-SA5B-SS-0.0-0.5	6167527	N	3550B	8082	III
16-Dec-2010	SL-286-SA5B-SS-0.0-0.5	6167527	N	3550B	8151A	III
16-Dec-2010	SL-286-SA5B-SS-0.0-0.5	6167527	N	3550B	8270C	III
16-Dec-2010	SL-286-SA5B-SS-0.0-0.5	6167527	N	3550B	8270C SIM	III
16-Dec-2010	SL-286-SA5B-SS-0.0-0.5	6167527	N	Gen Prep	9045M	III
16-Dec-2010	SL-286-SA5B-SS-0.0-0.5	6167527	N	METHOD	300.0	III
16-Dec-2010	SL-286-SA5B-SS-0.0-0.5	6167527	N	METHOD	314.0	III
16-Dec-2010	SL-286-SA5B-SS-0.0-0.5	6167527	N	METHOD	6850	III
16-Dec-2010	SL-286-SA5B-SS-0.0-0.5	6167527	N	METHOD	7471A	III
16-Dec-2010	SL-285-SA5B-SS-0.0-0.5	6167526	N	3050B	6010B	III
16-Dec-2010	SL-285-SA5B-SS-0.0-0.5	6167526	N	3050B	6020	III
16-Dec-2010	SL-285-SA5B-SS-0.0-0.5	6167526	N	3060A	7199	III
16-Dec-2010	SL-285-SA5B-SS-0.0-0.5	6167526	N	3550B	8081A	III
16-Dec-2010	SL-285-SA5B-SS-0.0-0.5	6167526	N	3550B	8082	III
16-Dec-2010	SL-285-SA5B-SS-0.0-0.5	6167526	N	3550B	8151A	III
16-Dec-2010	SL-285-SA5B-SS-0.0-0.5	6167526	N	3550B	8270C	III
16-Dec-2010	SL-285-SA5B-SS-0.0-0.5	6167526	N	3550B	8270C SIM	III
16-Dec-2010	SL-285-SA5B-SS-0.0-0.5	6167526	N	Gen Prep	9045M	III
16-Dec-2010	SL-285-SA5B-SS-0.0-0.5	6167526	N	METHOD	300.0	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-285-SA5B-SS-0.0-0.5	6167526	N	METHOD	314.0	III
16-Dec-2010	SL-285-SA5B-SS-0.0-0.5	6167526	N	METHOD	7471A	III
16-Dec-2010	SL-285-SA5B-SS-0.0-0.5DUP	P167526D271533B	DUP	METHOD	300.0	III
16-Dec-2010	SL-285-SA5B-SS-0.0-0.5MS	P167526R271547B	MS	METHOD	300.0	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	3050B	6010B	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	3050B	6020	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	3060A	7199	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	3546	1625C	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	3550B	8015B	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	3550B	8015M	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	3550B	8082	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	3550B	8270C	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	3550B	8270C SIM	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	5035	8015M	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	5035	8260B	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	5035	8260B SIM	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	8330	8330A	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	Gen Prep	9045M	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	METHOD	300.0	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	METHOD	314.0	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	METHOD	7471A	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	METHOD	8015B	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	METHOD	8015M	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	METHOD	8315A	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5	6167517	N	METHOD	9012B	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5DUP	P167517D271129A	DUP	METHOD	300.0	III

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FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5DUP	P167517D271519A	DUP	METHOD	314.0	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5MSD	P167517M242053A	MSD	METHOD	8315A	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5MSD	P167517M260010	MSD	3550B	8270C SIM	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5MSD	P167517M320027A	MSD	METHOD	8015M	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5MS	P167517R210311A	MS	5035	8260B	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5MS	P167517R242043A	MS	METHOD	8315A	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5MS	P167517R262337	MS	3550B	8270C SIM	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5MS	P167517R271143A	MS	METHOD	300.0	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5MS	P167517R271252A	MS	METHOD	314.0	III
16-Dec-2010	SL-040-SA5B-SB-1.5-2.5MS	P167517R320011A	MS	METHOD	8015M	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	3050B	6010B	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	3050B	6020	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	3060A	7199	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	3546	1625C	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	3550B	8015B	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	3550B	8015M	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	3550B	8082	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	3550B	8270C	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	3550B	8270C SIM	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	5035	8015M	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	5035	8260B	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	5035	8260B SIM	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	8330	8330A	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	Gen Prep	9045M	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	METHOD	300.0	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	METHOD	7471A	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	METHOD	8015B	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	METHOD	8015M	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	METHOD	8315A	III
16-Dec-2010	SL-040-SA5B-SB-9.0-10.0	6167518	N	METHOD	9012B	III
16-Dec-2010	EB16-SA5B-121610	6167516	EB	3510C	8015B	III
16-Dec-2010	EB16-SA5B-121610	6167516	EB	3510C	8015M	III
16-Dec-2010	EB16-SA5B-121610	6167516	EB	3520C	1625C	III
16-Dec-2010	EB16-SA5B-121610	6167516	EB	5030B	8015M	III
16-Dec-2010	EB16-SA5B-121610	6167516	EB	8330	8330A	III
16-Dec-2010	EB16-SA5B-121610	6167516	EB	Gen Prep	300.0	III
16-Dec-2010	EB16-SA5B-121610	6167516	EB	Gen Prep	8015M	III
16-Dec-2010	EB16-SA5B-121610	6167516	EB	Gen Prep	9040B	III
16-Dec-2010	EB16-SA5B-121610	6167516	EB	METHOD	8315A	III
16-Dec-2010	EB16-SA5B-121610	6167516	EB	METHOD	9012B	III
16-Dec-2010	EB16-SA5B-121610MSD	P167516M321811A	MSD	Gen Prep	8015M	III
16-Dec-2010	EB16-SA5B-121610MS	P167516R321755A	MS	Gen Prep	8015M	III
16-Dec-2010	DUP07-SA5B-QC-121610	6167514	FD	3050B	6010B	III
16-Dec-2010	DUP07-SA5B-QC-121610	6167514	FD	3050B	6020	III
16-Dec-2010	DUP07-SA5B-QC-121610	6167514	FD	3060A	7199	III
16-Dec-2010	DUP07-SA5B-QC-121610	6167514	FD	3550B	8081A	III
16-Dec-2010	DUP07-SA5B-QC-121610	6167514	FD	3550B	8082	III
16-Dec-2010	DUP07-SA5B-QC-121610	6167514	FD	3550B	8151A	III
16-Dec-2010	DUP07-SA5B-QC-121610	6167514	FD	3550B	8270C	III
16-Dec-2010	DUP07-SA5B-QC-121610	6167514	FD	3550B	8270C SIM	III
16-Dec-2010	DUP07-SA5B-QC-121610	6167514	FD	Gen Prep	9045M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	DUP07-SA5B-QC-121610	6167514	FD	METHOD	300.0	III
16-Dec-2010	DUP07-SA5B-QC-121610	6167514	FD	METHOD	314.0	III
16-Dec-2010	DUP07-SA5B-QC-121610	6167514	FD	METHOD	7471A	III
16-Dec-2010	DUP07-SA5B-QC-121610MSD	P167514M240726A	MSD	3550B	8151A	III
16-Dec-2010	DUP07-SA5B-QC-121610MSD	P167514M262156	MSD	3550B	8270C	III
16-Dec-2010	DUP07-SA5B-QC-121610MS	P167514R240604A	MS	3550B	8151A	III
16-Dec-2010	DUP07-SA5B-QC-121610MS	P167514R262121	MS	3550B	8270C	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	3050B	6010B	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	3050B	6020	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	3060A	7199	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	3546	1625C	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	3550B	8015B	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	3550B	8015M	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	3550B	8082	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	3550B	8270C	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	3550B	8270C SIM	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	5035	8015M	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	5035	8260B	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	5035	8260B SIM	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	8330	8330A	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	Gen Prep	9045M	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	METHOD	300.0	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	METHOD	314.0	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	METHOD	7471A	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	METHOD	8015B	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	METHOD	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	METHOD	8315A	III
16-Dec-2010	SL-041-SA5B-SB-1.5-2.5	6167519	N	METHOD	9012B	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	3050B	6010B	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	3050B	6020	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	3060A	7199	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	3546	1625C	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	3550B	8015B	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	3550B	8015M	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	3550B	8082	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	3550B	8270C	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	3550B	8270C SIM	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	5035	8015M	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	5035	8260B	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	5035	8260B SIM	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	8330	8330A	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	Gen Prep	9045M	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	METHOD	300.0	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	METHOD	314.0	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	METHOD	7471A	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	METHOD	8015B	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	METHOD	8015M	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	METHOD	8315A	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0	6167520	N	METHOD	9012B	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0MSD	P167520M321715A	MSD	METHOD	8015B	III
16-Dec-2010	SL-041-SA5B-SB-8.0-9.0MS	P167520R321701A	MS	METHOD	8015B	III
16-Dec-2010	EB04-SA5B-121610	6167515	EB	3005A	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	EB04-SA5B-121610	6167515	EB	3020A	6020	III
16-Dec-2010	EB04-SA5B-121610	6167515	EB	3510C	8081A	III
16-Dec-2010	EB04-SA5B-121610	6167515	EB	3510C	8082	III
16-Dec-2010	EB04-SA5B-121610	6167515	EB	3510C	8270C	III
16-Dec-2010	EB04-SA5B-121610	6167515	EB	3510C	8270C SIM	III
16-Dec-2010	EB04-SA5B-121610	6167515	EB	Gen Prep	300.0	III
16-Dec-2010	EB04-SA5B-121610	6167515	EB	Gen Prep	314.0	III
16-Dec-2010	EB04-SA5B-121610	6167515	EB	Gen Prep	7199	III
16-Dec-2010	EB04-SA5B-121610	6167515	EB	Gen Prep	9040B	III
16-Dec-2010	EB04-SA5B-121610	6167515	EB	METHOD	7470A	III
16-Dec-2010	EB04-SA5B-121610	6167515	EB	METHOD	8151A	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	3050B	6010B	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	3050B	6020	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	3060A	7199	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	3546	1625C	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	3550B	8015B	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	3550B	8015M	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	3550B	8082	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	3550B	8270C	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	3550B	8270C SIM	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	5035	8015M	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	5035	8260B	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	5035	8260B SIM	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	8330	8330A	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	Gen Prep	9045M	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	METHOD	300.0	III

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FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	METHOD	314.0	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	METHOD	7471A	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	METHOD	8015B	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	METHOD	8015M	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	METHOD	8315A	III
16-Dec-2010	SL-042-SA5B-SB-2.5-3.5	6167521	N	METHOD	9012B	III
16-Dec-2010	SL-284-SA5B-SS-0.0-0.5	6167525	N	3050B	6010B	III
16-Dec-2010	SL-284-SA5B-SS-0.0-0.5	6167525	N	3050B	6020	III
16-Dec-2010	SL-284-SA5B-SS-0.0-0.5	6167525	N	3060A	7199	III
16-Dec-2010	SL-284-SA5B-SS-0.0-0.5	6167525	N	3550B	8081A	III
16-Dec-2010	SL-284-SA5B-SS-0.0-0.5	6167525	N	3550B	8082	III
16-Dec-2010	SL-284-SA5B-SS-0.0-0.5	6167525	N	3550B	8151A	III
16-Dec-2010	SL-284-SA5B-SS-0.0-0.5	6167525	N	3550B	8270C	III
16-Dec-2010	SL-284-SA5B-SS-0.0-0.5	6167525	N	3550B	8270C SIM	III
16-Dec-2010	SL-284-SA5B-SS-0.0-0.5	6167525	N	Gen Prep	9045M	III
16-Dec-2010	SL-284-SA5B-SS-0.0-0.5	6167525	N	METHOD	300.0	III
16-Dec-2010	SL-284-SA5B-SS-0.0-0.5	6167525	N	METHOD	314.0	III
16-Dec-2010	SL-284-SA5B-SS-0.0-0.5	6167525	N	METHOD	7471A	III
16-Dec-2010	SL-284-SA5B-SS-0.0-0.5DUP	P167525D271729B	DUP	METHOD	314.0	III
16-Dec-2010	SL-284-SA5B-SS-0.0-0.5DUP	P167525D291650B	DUP	Gen Prep	9045M	III
16-Dec-2010	SL-284-SA5B-SS-0.0-0.5MS	P167525R271752B	MS	METHOD	314.0	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	3050B	6010B	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	3050B	6020	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	3060A	7199	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	3546	1625C	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	3550B	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	3550B	8015M	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	3550B	8082	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	3550B	8270C	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	3550B	8270C SIM	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	5035	8015M	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	5035	8260B	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	5035	8260B SIM	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	8330	8330A	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	Gen Prep	9045M	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	METHOD	300.0	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	METHOD	314.0	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	METHOD	7471A	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	METHOD	8015B	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	METHOD	8015M	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	METHOD	8315A	III
16-Dec-2010	SL-042-SA5B-SB-8.0-9.0	6167522	N	METHOD	9012B	III
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5	6167524	N	3050B	6010B	III
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5	6167524	N	3050B	6020	III
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5	6167524	N	3060A	7199	III
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5	6167524	N	3550B	8081A	III
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5	6167524	N	3550B	8082	III
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5	6167524	N	3550B	8151A	III
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5	6167524	N	3550B	8270C	III
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5	6167524	N	3550B	8270C SIM	III
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5	6167524	N	Gen Prep	9045M	III
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5	6167524	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5	6167524	N	METHOD	314.0	III
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5	6167524	N	METHOD	6850	III
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5	6167524	N	METHOD	7471A	III
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5DUP	P167524D270418A	DUP	3060A	7199	III
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5MSD	P167524M242320A	MSD	3550B	8081A	III
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5MS	P167524R242306A	MS	3550B	8081A	III
16-Dec-2010	SL-205-SA5B-SS-0.0-0.5MS	P167524R270330A	MS	3060A	7199	III
16-Dec-2010	SL-304-SA5B-SS-0.0-0.5	6167528	N	3050B	6010B	III
16-Dec-2010	SL-304-SA5B-SS-0.0-0.5	6167528	N	3050B	6020	III
16-Dec-2010	SL-304-SA5B-SS-0.0-0.5	6167528	N	3060A	7199	III
16-Dec-2010	SL-304-SA5B-SS-0.0-0.5	6167528	N	3550B	8081A	III
16-Dec-2010	SL-304-SA5B-SS-0.0-0.5	6167528	N	3550B	8082	III
16-Dec-2010	SL-304-SA5B-SS-0.0-0.5	6167528	N	3550B	8151A	III
16-Dec-2010	SL-304-SA5B-SS-0.0-0.5	6167528	N	3550B	8270C	III
16-Dec-2010	SL-304-SA5B-SS-0.0-0.5	6167528	N	3550B	8270C SIM	III
16-Dec-2010	SL-304-SA5B-SS-0.0-0.5	6167528	N	Gen Prep	9045M	III
16-Dec-2010	SL-304-SA5B-SS-0.0-0.5	6167528	N	METHOD	300.0	III
16-Dec-2010	SL-304-SA5B-SS-0.0-0.5	6167528	N	METHOD	314.0	III
16-Dec-2010	SL-304-SA5B-SS-0.0-0.5	6167528	N	METHOD	7471A	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	3050B	6010B	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	3050B	6020	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	3060A	7199	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	3546	1625C	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	3550B	8015B	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	3550B	8015M	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	3550B	8270C	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	3550B	8270C SIM	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	5035	8015M	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	5035	8260B	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	5035	8260B SIM	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	8330	8330A	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	Gen Prep	9045M	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	METHOD	300.0	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	METHOD	314.0	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	METHOD	7471A	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	METHOD	8015B	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	METHOD	8015M	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	METHOD	8315A	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5	6167523	N	METHOD	9012B	III
16-Dec-2010	SL-043-SA5B-SB-2.5-3.5DUP	P167523D291650A	DUP	Gen Prep	9045M	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM
Method:	300.0
Matrix:	SO

Sample ID: SL-040-SA5B-SB-1.5-2.5 Collected: 12/16/2010 10:07:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.3	J	0.89	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-041-SA5B-SB-1.5-2.5 Collected: 12/16/2010 11:44:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.95	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-041-SA5B-SB-8.0-9.0 Collected: 12/16/2010 11:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.98	J	0.89	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA5B-SB-2.5-3.5 Collected: 12/16/2010 2:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.89	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA5B-SB-8.0-9.0 Collected: 12/16/2010 2:18:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.90	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-043-SA5B-SB-2.5-3.5 Collected: 12/16/2010 3:49:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.0	J	0.89	MDL	1.7	PQL	mg/Kg	J	Z

Method Category:	METALS
Method:	6010B
Matrix:	SO

Sample ID: DUP07-SA5B-QC-121610 Collected: 12/16/2010 11:29:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	104	J	39.2	MDL	105	PQL	mg/Kg	J	Z
Zirconium	1.83	J	0.883	MDL	5.25	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: DUP07-SA5B-QC-121610

Collected: 12/16/2010 11:29:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.32	J	0.935	MDL	5.25	PQL	mg/Kg	J	Z
TIN	2.62	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-040-SA5B-SB-1.5-2.5

Collected: 12/16/2010 10:07:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.06	J	0.928	MDL	5.53	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5B-SB-1.5-2.5

Collected: 12/16/2010 10:07:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.92	J	0.983	MDL	5.53	PQL	mg/Kg	J	Z
TIN	2.61	J	1.11	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-040-SA5B-SB-9.0-10.0

Collected: 12/16/2010 10:15:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.06	J	0.972	MDL	5.79	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5B-SB-9.0-10.0

Collected: 12/16/2010 10:15:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.42	J	1.03	MDL	5.79	PQL	mg/Kg	J	Z
TIN	2.95	J	1.16	MDL	11.6	PQL	mg/Kg	U	B

Sample ID: SL-041-SA5B-SB-1.5-2.5

Collected: 12/16/2010 11:44:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	4.89	J	0.980	MDL	5.84	PQL	mg/Kg	J	Z

Sample ID: SL-041-SA5B-SB-1.5-2.5

Collected: 12/16/2010 11:44:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.78	J	1.17	MDL	11.7	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-041-SA5B-SB-8.0-9.0

Collected: 12/16/2010 11:55:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.14	J	0.912	MDL	5.43	PQL	mg/Kg	J	Z

Sample ID: SL-041-SA5B-SB-8.0-9.0

Collected: 12/16/2010 11:55:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.55	J	1.09	MDL	10.9	PQL	mg/Kg	U	B

Sample ID: SL-042-SA5B-SB-2.5-3.5

Collected: 12/16/2010 2:10:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	97.1	J	40.4	MDL	108	PQL	mg/Kg	J	Z
Zirconium	1.86	J	0.910	MDL	5.42	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA5B-SB-2.5-3.5

Collected: 12/16/2010 2:10:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.43	J	0.964	MDL	5.42	PQL	mg/Kg	J	Z
TIN	2.68	J	1.08	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-042-SA5B-SB-8.0-9.0

Collected: 12/16/2010 2:18:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.23	J	0.927	MDL	5.52	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA5B-SB-8.0-9.0

Collected: 12/16/2010 2:18:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.91	J	0.983	MDL	5.52	PQL	mg/Kg	J	Z
TIN	3.57	J	1.10	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-043-SA5B-SB-2.5-3.5

Collected: 12/16/2010 3:49:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	100	J	39.7	MDL	106	PQL	mg/Kg	J	Z
Zirconium	1.15	J	0.894	MDL	5.32	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-043-SA5B-SB-2.5-3.5

Collected: 12/16/2010 3:49:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.17	J	0.948	MDL	5.32	PQL	mg/Kg	J	Z
TIN	2.62	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

Sample ID: SL-205-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:32:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	76.3	J	38.6	MDL	104	PQL	mg/Kg	J	Z
Zirconium	0.899	J	0.870	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-205-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:32:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.34	J	1.04	MDL	10.4	PQL	mg/Kg	U	B

Sample ID: SL-284-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:13:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.04	J	0.926	MDL	5.51	PQL	mg/Kg	J	Z

Sample ID: SL-284-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:13:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.70	J	1.10	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-285-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:20:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	98.3	J	39.6	MDL	106	PQL	mg/Kg	J	Z
Zirconium	1.01	J	0.891	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-285-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:20:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.55	J	0.944	MDL	5.31	PQL	mg/Kg	J	Z
TIN	2.67	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-286-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:02:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	104	J	42.5	MDL	114	PQL	mg/Kg	J	Z

Sample ID: SL-286-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:02:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.70	J	1.14	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-304-SA5B-SS-0.0-0.5

Collected: 12/16/2010 3:10:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	81.4	J	38.4	MDL	103	PQL	mg/Kg	J	Z
Zirconium	0.926	J	0.866	MDL	5.15	PQL	mg/Kg	J	Z

Sample ID: SL-304-SA5B-SS-0.0-0.5

Collected: 12/16/2010 3:10:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.40	J	1.03	MDL	10.3	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP07-SA5B-QC-121610

Collected: 12/16/2010 11:29:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.193	J	0.0637	MDL	0.212	PQL	mg/Kg	UJ	B, Q
ARSENIC	9.23		0.0637	MDL	0.424	PQL	mg/Kg	J	Q
BERYLLIUM	0.718		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.405		0.0382	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	29.4		0.127	MDL	0.424	PQL	mg/Kg	J	A, Q
COBALT	8.61		0.0212	MDL	0.106	PQL	mg/Kg	J	A, Q
COPPER	14.6		0.0700	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	20.3		0.0110	MDL	0.212	PQL	mg/Kg	J	A, Q
NICKEL	18.4		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.151		0.0127	MDL	0.106	PQL	mg/Kg	J	Q
THALLIUM	0.388		0.0318	MDL	0.106	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP07-SA5B-QC-121610

Collected: 12/16/2010 11:29:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	52.8		0.0233	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: DUP07-SA5B-QC-121610

Collected: 12/16/2010 11:29:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.187	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z, Q

Sample ID: DUP07-SA5B-QC-121610

Collected: 12/16/2010 11:29:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.20		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: DUP07-SA5B-QC-121610

Collected: 12/16/2010 11:29:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	149		0.115	MDL	0.424	PQL	mg/Kg	J	A

Sample ID: SL-040-SA5B-SB-1.5-2.5

Collected: 12/16/2010 10:07:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.214	J	0.0663	MDL	0.221	PQL	mg/Kg	UJ	B, Q
ARSENIC	7.38		0.0663	MDL	0.442	PQL	mg/Kg	J	Q
BERYLLIUM	0.957		0.0177	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	0.275		0.0398	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	30.2		0.133	MDL	0.442	PQL	mg/Kg	J	A, Q
COBALT	8.67		0.0221	MDL	0.111	PQL	mg/Kg	J	A, Q
COPPER	12.6		0.0729	MDL	0.442	PQL	mg/Kg	J	Q
LEAD	9.70		0.0115	MDL	0.221	PQL	mg/Kg	J	A, Q
NICKEL	17.8		0.111	MDL	0.442	PQL	mg/Kg	J	Q
SILVER	0.0573	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.459		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	59.8		0.0243	MDL	0.111	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-040-SA5B-SB-1.5-2.5

Collected: 12/16/2010 10:07:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.190	J	0.0442	MDL	0.442	PQL	mg/Kg	J	Z, Q

Sample ID: SL-040-SA5B-SB-1.5-2.5

Collected: 12/16/2010 10:07:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.957		0.0553	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-040-SA5B-SB-1.5-2.5

Collected: 12/16/2010 10:07:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	163		0.119	MDL	0.442	PQL	mg/Kg	J	A

Sample ID: SL-040-SA5B-SB-9.0-10.0

Collected: 12/16/2010 10:15:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.315		0.0688	MDL	0.229	PQL	mg/Kg	UJ	B, Q
ARSENIC	12.9		0.0688	MDL	0.459	PQL	mg/Kg	J	Q
BERYLLIUM	1.12		0.0183	MDL	0.115	PQL	mg/Kg	J	Q
CADMIUM	0.394		0.0413	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	49.3		0.138	MDL	0.459	PQL	mg/Kg	J	A, Q
COBALT	12.5		0.0229	MDL	0.115	PQL	mg/Kg	J	A, Q
COPPER	18.8		0.0757	MDL	0.459	PQL	mg/Kg	J	Q
LEAD	15.9		0.0119	MDL	0.229	PQL	mg/Kg	J	A, Q
NICKEL	25.4		0.115	MDL	0.459	PQL	mg/Kg	J	Q
SILVER	0.0811	J	0.0138	MDL	0.115	PQL	mg/Kg	J	Z, Q
THALLIUM	0.559		0.0344	MDL	0.115	PQL	mg/Kg	J	Q
VANADIUM	91.3		0.0252	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-040-SA5B-SB-9.0-10.0

Collected: 12/16/2010 10:15:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.173	J	0.0458	MDL	0.459	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-040-SA5B-SB-9.0-10.0

Collected: 12/16/2010 10:15:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.992		0.0573	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-040-SA5B-SB-9.0-10.0

Collected: 12/16/2010 10:15:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	203		0.124	MDL	0.459	PQL	mg/Kg	J	A

Sample ID: SL-041-SA5B-SB-1.5-2.5

Collected: 12/16/2010 11:44:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.386		0.0700	MDL	0.233	PQL	mg/Kg	J	Q
ARSENIC	10.3		0.0700	MDL	0.467	PQL	mg/Kg	J	Q
BERYLLIUM	1.10		0.0187	MDL	0.117	PQL	mg/Kg	J	Q
CADMIUM	0.522		0.0420	MDL	0.117	PQL	mg/Kg	J	Q
CHROMIUM	48.5		0.140	MDL	0.467	PQL	mg/Kg	J	A, Q
COBALT	11.7		0.0233	MDL	0.117	PQL	mg/Kg	J	A, Q
COPPER	22.5		0.0770	MDL	0.467	PQL	mg/Kg	J	Q
LEAD	16.3		0.0121	MDL	0.233	PQL	mg/Kg	J	A, Q
NICKEL	23.7		0.117	MDL	0.467	PQL	mg/Kg	J	Q
SILVER	0.0645	J	0.0140	MDL	0.117	PQL	mg/Kg	J	Z, Q
THALLIUM	0.510		0.0350	MDL	0.117	PQL	mg/Kg	J	Q
VANADIUM	87.5		0.0257	MDL	0.117	PQL	mg/Kg	J	Q

Sample ID: SL-041-SA5B-SB-1.5-2.5

Collected: 12/16/2010 11:44:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.288	J	0.0467	MDL	0.467	PQL	mg/Kg	J	Z, Q

Sample ID: SL-041-SA5B-SB-1.5-2.5

Collected: 12/16/2010 11:44:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.736		0.0584	MDL	0.117	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-041-SA5B-SB-1.5-2.5

Collected: 12/16/2010 11:44:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	175		0.126	MDL	0.467	PQL	mg/Kg	J	A

Sample ID: SL-041-SA5B-SB-8.0-9.0

Collected: 12/16/2010 11:55:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.204	J	0.0658	MDL	0.219	PQL	mg/Kg	UJ	B, Q
ARSENIC	7.71		0.0658	MDL	0.439	PQL	mg/Kg	J	Q
BERYLLIUM	0.809		0.0175	MDL	0.110	PQL	mg/Kg	J	Q
CADMIUM	0.215		0.0395	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	27.2		0.132	MDL	0.439	PQL	mg/Kg	J	A, Q
COBALT	8.40		0.0219	MDL	0.110	PQL	mg/Kg	J	A, Q
COPPER	10.9		0.0724	MDL	0.439	PQL	mg/Kg	J	Q
LEAD	9.33		0.0114	MDL	0.219	PQL	mg/Kg	J	A, Q
NICKEL	16.1		0.110	MDL	0.439	PQL	mg/Kg	J	Q
SILVER	0.0627	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.413		0.0329	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	57.6		0.0241	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-041-SA5B-SB-8.0-9.0

Collected: 12/16/2010 11:55:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.161	J	0.0439	MDL	0.439	PQL	mg/Kg	J	Z, Q

Sample ID: SL-041-SA5B-SB-8.0-9.0

Collected: 12/16/2010 11:55:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.907		0.0548	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-041-SA5B-SB-8.0-9.0

Collected: 12/16/2010 11:55:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	136		0.118	MDL	0.439	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-042-SA5B-SB-2.5-3.5

Collected: 12/16/2010 2:10:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.144	J	0.0657	MDL	0.219	PQL	mg/Kg	UJ	B, Q
ARSENIC	6.16		0.0657	MDL	0.438	PQL	mg/Kg	J	Q
BERYLLIUM	0.705		0.0175	MDL	0.109	PQL	mg/Kg	J	Q
CADMIUM	0.0973	J	0.0394	MDL	0.109	PQL	mg/Kg	J	Z, Q
CHROMIUM	23.1		0.131	MDL	0.438	PQL	mg/Kg	J	A, Q
COBALT	6.07		0.0219	MDL	0.109	PQL	mg/Kg	J	A, Q
COPPER	8.44		0.0722	MDL	0.438	PQL	mg/Kg	J	Q
LEAD	7.99		0.0114	MDL	0.219	PQL	mg/Kg	J	A, Q
NICKEL	12.5		0.109	MDL	0.438	PQL	mg/Kg	J	Q
SILVER	0.0513	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.352		0.0328	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	46.7		0.0241	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-042-SA5B-SB-2.5-3.5

Collected: 12/16/2010 2:10:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.102	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z, Q

Sample ID: SL-042-SA5B-SB-2.5-3.5

Collected: 12/16/2010 2:10:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.768		0.0547	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-042-SA5B-SB-2.5-3.5

Collected: 12/16/2010 2:10:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.118	MDL	0.438	PQL	mg/Kg	J	A

Sample ID: SL-042-SA5B-SB-8.0-9.0

Collected: 12/16/2010 2:18:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.137	J	0.0669	MDL	0.223	PQL	mg/Kg	UJ	B, Q
ARSENIC	7.36		0.0669	MDL	0.446	PQL	mg/Kg	J	Q
BERYLLIUM	0.836		0.0178	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	0.128		0.0401	MDL	0.111	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-042-SA5B-SB-8.0-9.0

Collected: 12/16/2010 2:18:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	22.9		0.134	MDL	0.446	PQL	mg/Kg	J	A, Q
COBALT	6.62		0.0223	MDL	0.111	PQL	mg/Kg	J	A, Q
COPPER	9.70		0.0736	MDL	0.446	PQL	mg/Kg	J	Q
LEAD	8.07		0.0116	MDL	0.223	PQL	mg/Kg	J	A, Q
NICKEL	12.2		0.111	MDL	0.446	PQL	mg/Kg	J	Q
SILVER	0.0731	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.372		0.0334	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	51.7		0.0245	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-042-SA5B-SB-8.0-9.0

Collected: 12/16/2010 2:18:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.222	J	0.0446	MDL	0.446	PQL	mg/Kg	J	Z, Q

Sample ID: SL-042-SA5B-SB-8.0-9.0

Collected: 12/16/2010 2:18:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.959		0.0557	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-042-SA5B-SB-8.0-9.0

Collected: 12/16/2010 2:18:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.4		0.120	MDL	0.446	PQL	mg/Kg	J	A

Sample ID: SL-043-SA5B-SB-2.5-3.5

Collected: 12/16/2010 3:49:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.141	J	0.0651	MDL	0.217	PQL	mg/Kg	UJ	B, Q
ARSENIC	6.72		0.0651	MDL	0.434	PQL	mg/Kg	J	Q
BERYLLIUM	0.647		0.0174	MDL	0.109	PQL	mg/Kg	J	Q
CADMIUM	0.149		0.0391	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	23.6		0.130	MDL	0.434	PQL	mg/Kg	J	A, Q
COBALT	7.01		0.0217	MDL	0.109	PQL	mg/Kg	J	A, Q
COPPER	9.04		0.0717	MDL	0.434	PQL	mg/Kg	J	Q
LEAD	7.47		0.0113	MDL	0.217	PQL	mg/Kg	J	A, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-043-SA5B-SB-2.5-3.5

Collected: 12/16/2010 3:49:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	14.1		0.109	MDL	0.434	PQL	mg/Kg	J	Q
SILVER	0.0309	J	0.0130	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.362		0.0326	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	47.3		0.0239	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-043-SA5B-SB-2.5-3.5

Collected: 12/16/2010 3:49:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.134	J	0.0434	MDL	0.434	PQL	mg/Kg	J	Z, Q

Sample ID: SL-043-SA5B-SB-2.5-3.5

Collected: 12/16/2010 3:49:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.815		0.0543	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-043-SA5B-SB-2.5-3.5

Collected: 12/16/2010 3:49:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	115		0.117	MDL	0.434	PQL	mg/Kg	J	A

Sample ID: SL-205-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:32:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.201	J	0.0621	MDL	0.207	PQL	mg/Kg	UJ	B, Q
ARSENIC	6.79		0.0621	MDL	0.414	PQL	mg/Kg	J	Q
BERYLLIUM	0.708		0.0166	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.414		0.0373	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	27.9		0.124	MDL	0.414	PQL	mg/Kg	J	A, Q
COBALT	8.27		0.0207	MDL	0.104	PQL	mg/Kg	J	A, Q
COPPER	13.5		0.0683	MDL	0.414	PQL	mg/Kg	J	Q
LEAD	14.2		0.0108	MDL	0.207	PQL	mg/Kg	J	A, Q
NICKEL	18.0		0.104	MDL	0.414	PQL	mg/Kg	J	Q
SILVER	0.0522	J	0.0124	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.411		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	47.9		0.0228	MDL	0.104	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-205-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:32:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.158	J	0.0414	MDL	0.414	PQL	mg/Kg	J	Z, Q

Sample ID: SL-205-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:32:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.04		0.0518	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-205-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:32:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	151		0.112	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: SL-284-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:13:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.465		0.0668	MDL	0.223	PQL	mg/Kg	J	Q
ARSENIC	10.0		0.0668	MDL	0.445	PQL	mg/Kg	J	Q
BERYLLIUM	0.646		0.0178	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	2.17		0.0401	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	31.9		0.134	MDL	0.445	PQL	mg/Kg	J	A, Q
COBALT	9.70		0.0223	MDL	0.111	PQL	mg/Kg	J	A, Q
COPPER	26.3		0.0734	MDL	0.445	PQL	mg/Kg	J	Q
LEAD	22.6		0.0116	MDL	0.223	PQL	mg/Kg	J	A, Q
NICKEL	28.8		0.111	MDL	0.445	PQL	mg/Kg	J	Q
SILVER	7.23		0.0134	MDL	0.111	PQL	mg/Kg	J	Q
THALLIUM	0.427		0.0334	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	50.6		0.0245	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-284-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:13:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.420	J	0.0445	MDL	0.445	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-284-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:13:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.44		0.0556	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-284-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:13:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	125		0.120	MDL	0.445	PQL	mg/Kg	J	A

Sample ID: SL-285-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:20:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.354		0.0649	MDL	0.216	PQL	mg/Kg	J	Q
ARSENIC	6.97		0.0649	MDL	0.433	PQL	mg/Kg	J	Q
BERYLLIUM	0.503		0.0173	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	1.70		0.0390	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	49.8		0.130	MDL	0.433	PQL	mg/Kg	J	A, Q
COBALT	9.76		0.0216	MDL	0.108	PQL	mg/Kg	J	A, Q
NICKEL	34.8		0.108	MDL	0.433	PQL	mg/Kg	J	Q
SILVER	0.905		0.0130	MDL	0.108	PQL	mg/Kg	J	Q
THALLIUM	0.236		0.0325	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	54.4		0.0238	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-285-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:20:00

Analysis Type: REA5

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	352		0.179	MDL	1.08	PQL	mg/Kg	J	Q

Sample ID: SL-285-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:20:00

Analysis Type: REA6

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	97.2		0.0563	MDL	1.08	PQL	mg/Kg	J	A, Q

Sample ID: SL-285-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:20:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.190	J	0.0433	MDL	0.433	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-285-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:20:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	4.42		0.0541	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-285-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:20:00

Analysis Type: REA9

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	139		0.292	MDL	1.08	PQL	mg/Kg	J	A

Sample ID: SL-286-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:02:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.279		0.0690	MDL	0.230	PQL	mg/Kg	UJ	B, Q
ARSENIC	5.65		0.0690	MDL	0.460	PQL	mg/Kg	J	Q
BERYLLIUM	0.491		0.0184	MDL	0.115	PQL	mg/Kg	J	Q
CADMIUM	1.12		0.0414	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	46.4		0.138	MDL	0.460	PQL	mg/Kg	J	A, Q
COBALT	9.46		0.0230	MDL	0.115	PQL	mg/Kg	J	A, Q
COPPER	19.3		0.0759	MDL	0.460	PQL	mg/Kg	J	Q
LEAD	60.5		0.0120	MDL	0.230	PQL	mg/Kg	J	A, Q
NICKEL	33.7		0.115	MDL	0.460	PQL	mg/Kg	J	Q
SILVER	0.880		0.0138	MDL	0.115	PQL	mg/Kg	J	Q
VANADIUM	43.1		0.0253	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-286-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:02:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.208		0.0345	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-286-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:02:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.201	J	0.0460	MDL	0.460	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS
Method:	6020
Matrix:	SO

Sample ID: SL-286-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:02:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.85		0.0575	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-286-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:02:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.124	MDL	0.460	PQL	mg/Kg	J	A

Sample ID: SL-304-SA5B-SS-0.0-0.5

Collected: 12/16/2010 3:10:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.180	J	0.0624	MDL	0.208	PQL	mg/Kg	UJ	B, Q
ARSENIC	7.13		0.0624	MDL	0.416	PQL	mg/Kg	J	Q
BERYLLIUM	0.740		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.561		0.0375	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	28.2		0.125	MDL	0.416	PQL	mg/Kg	J	A, Q
COBALT	9.91		0.0208	MDL	0.104	PQL	mg/Kg	J	A, Q
COPPER	15.4		0.0687	MDL	0.416	PQL	mg/Kg	J	Q
LEAD	21.8		0.0108	MDL	0.208	PQL	mg/Kg	J	A, Q
NICKEL	19.5		0.104	MDL	0.416	PQL	mg/Kg	J	Q
SILVER	0.130		0.0125	MDL	0.104	PQL	mg/Kg	J	Q
THALLIUM	0.462		0.0312	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	50.5		0.0229	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-304-SA5B-SS-0.0-0.5

Collected: 12/16/2010 3:10:00

Analysis Type: REA7

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.183	J	0.0416	MDL	0.416	PQL	mg/Kg	J	Z, Q

Sample ID: SL-304-SA5B-SS-0.0-0.5

Collected: 12/16/2010 3:10:00

Analysis Type: REA8

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.16		0.0520	MDL	0.104	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS
Method:	6020
Matrix:	SO

Sample ID: SL-304-SA5B-SS-0.0-0.5 Collected: 12/16/2010 3:10:00 Analysis Type: REA9 Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	172		0.112	MDL	0.416	PQL	mg/Kg	J	A

Method Category:	METALS
Method:	7199
Matrix:	SO

Sample ID: DUP07-SA5B-QC-121610 Collected: 12/16/2010 11:29:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.68	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5B-SB-1.5-2.5 Collected: 12/16/2010 10:07:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5B-SB-9.0-10.0 Collected: 12/16/2010 10:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.55	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-041-SA5B-SB-1.5-2.5 Collected: 12/16/2010 11:44:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-041-SA5B-SB-8.0-9.0 Collected: 12/16/2010 11:55:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.58	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA5B-SB-2.5-3.5 Collected: 12/16/2010 2:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-042-SA5B-SB-8.0-9.0

Collected: 12/16/2010 2:18:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-043-SA5B-SB-2.5-3.5

Collected: 12/16/2010 3:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-205-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:32:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-284-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:13:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-285-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.96	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-304-SA5B-SS-0.0-0.5

Collected: 12/16/2010 3:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-040-SA5B-SB-1.5-2.5

Collected: 12/16/2010 10:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0070	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-040-SA5B-SB-9.0-10.0

Collected: 12/16/2010 10:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0258	J	0.0033	MDL	0.116	PQL	mg/Kg	J	Z

Sample ID: SL-284-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:13:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0627	J	0.0032	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SL-285-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0486	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-286-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:02:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0516	J	0.0032	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SL-304-SA5B-SS-0.0-0.5

Collected: 12/16/2010 3:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0058	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C

Matrix: AQ

Sample ID: EB16-SA5B-121610

Collected: 12/16/2010 11:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.23		1.00	MDL	2.00	PQL	ng/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8015M

Matrix: AQ

Sample ID: EB16-SA5B-121610

Collected: 12/16/2010 11:20:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.099	U	0.099	MDL	0.60	PQL	mg/L	UJ	S
EFH (C15-C20)	0.099	U	0.099	MDL	0.60	PQL	mg/L	UJ	S
EFH (C21-C30)	0.099	U	0.099	MDL	0.60	PQL	mg/L	UJ	S
EFH (C30-C40)	0.099	U	0.099	MDL	0.60	PQL	mg/L	UJ	S
EFH (C8-C11)	0.099	U	0.099	MDL	0.60	PQL	mg/L	UJ	L, S

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: SL-040-SA5B-SB-1.5-2.5

Collected: 12/16/2010 10:07:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.6	U	5.6	MDL	14	PQL	mg/Kg	UJ	Q, S
ETHYLENE GLYCOL	5.6	U	5.6	MDL	14	PQL	mg/Kg	UJ	Q, S
Propylene glycol	8.9	U	8.9	MDL	14	PQL	mg/Kg	UJ	Q, S

Sample ID: SL-041-SA5B-SB-8.0-9.0

Collected: 12/16/2010 11:55:00

Analysis Type: REA2

Dilution: 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	14	J	8.9	MDL	27	PQL	mg/Kg	J	Z

Sample ID: SL-041-SA5B-SB-8.0-9.0

Collected: 12/16/2010 11:55:00

Analysis Type: RES

Dilution: 31.73

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.5	J	0.3	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-043-SA5B-SB-2.5-3.5

Collected: 12/16/2010 3:49:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.68	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: DUP07-SA5B-QC-121610

Collected: 12/16/2010 11:29:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.30	U	0.30	MDL	0.36	PQL	ug/Kg	UJ	S
4,4'-DDE	0.23	U	0.23	MDL	0.36	PQL	ug/Kg	UJ	S
4,4'-DDT	0.18	U	0.18	MDL	0.36	PQL	ug/Kg	UJ	S
ALDRIN	0.071	U	0.071	MDL	0.18	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.036	U	0.036	MDL	0.18	PQL	ug/Kg	UJ	S
BETA-BHC	0.064	U	0.064	MDL	0.18	PQL	ug/Kg	UJ	S
Chlordane	3.1	U	3.1	MDL	3.6	PQL	ug/Kg	UJ	S
DELTA-BHC	0.039	U	0.039	MDL	0.18	PQL	ug/Kg	UJ	S
DIELDRIN	0.071	U	0.071	MDL	0.36	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.047	U	0.047	MDL	0.18	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.13	U	0.13	MDL	0.36	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.071	U	0.071	MDL	0.36	PQL	ug/Kg	UJ	S
ENDRIN	0.071	U	0.071	MDL	0.36	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.071	U	0.071	MDL	0.36	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.071	U	0.071	MDL	0.36	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.036	U	0.036	MDL	0.18	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.064	U	0.064	MDL	0.18	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.036	U	0.036	MDL	0.18	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	S
MIREX	0.23	U	0.23	MDL	0.36	PQL	ug/Kg	UJ	S
TOXAPHENE	2.4	U	2.4	MDL	7.1	PQL	ug/Kg	UJ	S

Sample ID: SL-205-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:32:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.27	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z
4,4'-DDT	1.5		0.070	MDL	0.36	PQL	ug/Kg	J	Q, Q, Q
Chlordane	2.0	J	0.84	MDL	3.6	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.19	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	0.18	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z
ENDRIN KETONE	0.099	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-284-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:13:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.056	J	0.041	MDL	0.19	PQL	ug/Kg	J	Z, S

Method Category: SVOA

Method: 8082

Matrix: AQ

Sample ID: EB04-SA5B-121610

Collected: 12/16/2010 12:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	0.11	U	0.11	MDL	0.54	PQL	ug/L	UJ	L
Aroclor 5442	0.11	U	0.11	MDL	0.54	PQL	ug/L	UJ	L
Aroclor 5460	0.11	U	0.11	MDL	0.54	PQL	ug/L	UJ	L

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: DUP07-SA5B-QC-121610

Collected: 12/16/2010 11:29:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	8.4		0.35	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1260	2.7		0.35	MDL	1.8	PQL	ug/Kg	J	S
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	5.2		1.1	MDL	3.5	PQL	ug/Kg	J	S, L

Sample ID: SL-040-SA5B-SB-1.5-2.5

Collected: 12/16/2010 10:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-040-SA5B-SB-9.0-10.0

Collected: 12/16/2010 10:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-040-SA5B-SB-9.0-10.0

Collected: 12/16/2010 10:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L

Sample ID: SL-041-SA5B-SB-1.5-2.5

Collected: 12/16/2010 11:44:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L

Sample ID: SL-041-SA5B-SB-8.0-9.0

Collected: 12/16/2010 11:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-042-SA5B-SB-2.5-3.5

Collected: 12/16/2010 2:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.89	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-042-SA5B-SB-8.0-9.0

Collected: 12/16/2010 2:18:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-043-SA5B-SB-2.5-3.5

Collected: 12/16/2010 3:49:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.7	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1254	1.6	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-205-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:32:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SL-284-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:13:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	44		1.1	MDL	3.7	PQL	ug/Kg	J	L

Sample ID: SL-285-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:20:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	5.5	U	5.5	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.5	U	5.5	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	43		5.5	MDL	18	PQL	ug/Kg	J	L

Sample ID: SL-286-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:02:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	5.9	U	5.9	MDL	19	PQL	ug/Kg	UJ	L
Aroclor 5442	5.9	U	5.9	MDL	19	PQL	ug/Kg	UJ	L
Aroclor 5460	26		5.9	MDL	19	PQL	ug/Kg	J	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-304-SA5B-SS-0.0-0.5

Collected: 12/16/2010 3:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.46	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.55	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: DUP07-SA5B-QC-121610

Collected: 12/16/2010 11:29:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.3	U	1.3	MDL	3.9	PQL	ug/Kg	R	Q
DALAPON	4.7	U	4.7	MDL	9.6	PQL	ug/Kg	R	Q
DICAMBA	0.47	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z, Q, Q
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L
MCP	450		80	MDL	270	PQL	ug/Kg	U	B

Sample ID: SL-205-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:32:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.83	J	0.42	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-284-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:13:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.91	U	0.91	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-285-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	1.2	U	1.2	MDL	2.6	PQL	ug/Kg	R	L
MCPA	220	J	83	MDL	270	PQL	ug/Kg	J	Z
MCP	170	J	82	MDL	270	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-286-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:02:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.94	U	0.94	MDL	2.8	PQL	ug/Kg	R	L

Sample ID: SL-304-SA5B-SS-0.0-0.5

Collected: 12/16/2010 3:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L
MCP	480		80	MDL	270	PQL	ug/Kg	U	B

Method Category: SVOA

Method: 8270C

Matrix: AQ

Sample ID: EB04-SA5B-121610

Collected: 12/16/2010 12:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3-DICHLOROBENZENE	1	U	1	MDL	5	PQL	ug/L	UJ	L
1,4-DICHLOROBENZENE	1	U	1	MDL	5	PQL	ug/L	UJ	L
4-CHLOROANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	E
ANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	E
BENZIDINE	21	U	21	MDL	62	PQL	ug/L	UJ	E
BENZOIC ACID	6	U	6	MDL	16	PQL	ug/L	UJ	E
HEXACHLOROCYCLOPENTADIENE	5	U	5	MDL	16	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: DUP07-SA5B-QC-121610

Collected: 12/16/2010 11:29:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3600	PQL	ug/Kg	R	Q

Sample ID: SL-041-SA5B-SB-8.0-9.0

Collected: 12/16/2010 11:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	41	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-042-SA5B-SB-2.5-3.5

Collected: 12/16/2010 2:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	22	J	19	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-284-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:13:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	20	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-285-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-286-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:02:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	43	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	31	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	59	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	49	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	23	J	20	MDL	200	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	190	J	20	MDL	390	PQL	ug/Kg	J	Z
CHRYSENE	53	J	20	MDL	200	PQL	ug/Kg	J	Z
FLUORANTHENE	83	J	20	MDL	200	PQL	ug/Kg	J	Z
PHENANTHRENE	57	J	20	MDL	200	PQL	ug/Kg	J	Z
PYRENE	92	J	20	MDL	200	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: AQ

Sample ID: EB04-SA5B-121610

Collected: 12/16/2010 12:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
BENZO(G,H,I)PERYLENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
BIS(2-ETHYLHEXYL)PHthalate	0.34	J	0.052	MDL	1.0	PQL	ug/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: AQ

Sample ID: EB04-SA5B-121610

Collected: 12/16/2010 12:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
Diethylphthalate	0.11	J	0.052	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.43	J	0.052	MDL	1.0	PQL	ug/L	U	B
INDENO(1,2,3-CD)PYRENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
NAPHTHALENE	0.030	J	0.010	MDL	0.052	PQL	ug/L	J	Z, L
N-NITROSODIMETHYLAMINE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
PHENANTHRENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: DUP07-SA5B-QC-121610

Collected: 12/16/2010 11:29:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.84	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.95	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	12	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-040-SA5B-SB-1.5-2.5

Collected: 12/16/2010 10:07:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	8.1	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Diethylphthalate	6.7	U	6.7	MDL	20	PQL	ug/Kg	UJ	Q

Sample ID: SL-040-SA5B-SB-9.0-10.0

Collected: 12/16/2010 10:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.99	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
ANTHRACENE	0.49	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-040-SA5B-SB-9.0-10.0

Collected: 12/16/2010 10:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.90	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	1.4	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
PYRENE	1.5	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-041-SA5B-SB-1.5-2.5

Collected: 12/16/2010 11:44:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.50	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.3	J	7.1	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.82	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-041-SA5B-SB-8.0-9.0

Collected: 12/16/2010 11:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	1.7	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.0	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.6	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
Dimethylphthalate	14	J	6.6	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	1.4	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-042-SA5B-SB-2.5-3.5

Collected: 12/16/2010 2:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.8	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
ACENAPHTHENE	1.2	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.99	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.0	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-042-SA5B-SB-2.5-3.5

Collected: 12/16/2010 2:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	0.82	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.2	J	6.7	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.93	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	1.3	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-042-SA5B-SB-8.0-9.0

Collected: 12/16/2010 2:18:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.5	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.8	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.88	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.90	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-043-SA5B-SB-2.5-3.5

Collected: 12/16/2010 3:49:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.2	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.2	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-205-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:32:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.77	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.3	MDL	19	PQL	ug/Kg	J	Z
Butylbenzylphthalate	11	J	6.3	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	9.0	J	6.3	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.6	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-284-SA5B-SS-0.0-0.5

Collected: 12/16/2010 2:13:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Butylbenzylphthalate	13	J	6.8	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	16	J	6.8	MDL	20	PQL	ug/Kg	J	Z
FLUORENE	1.4	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-285-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:20:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	5.4	J	3.6	MDL	9.1	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	6.7	J	3.6	MDL	9.1	PQL	ug/Kg	J	Z
ANTHRACENE	3.6	J	1.8	MDL	9.1	PQL	ug/Kg	J	Z
Butylbenzylphthalate	34	J	33	MDL	98	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	4.1	J	3.6	MDL	9.1	PQL	ug/Kg	J	Z
Di-n-butylphthalate	59	J	33	MDL	98	PQL	ug/Kg	J	Z
NAPHTHALENE	5.1	J	3.6	MDL	9.1	PQL	ug/Kg	J	Z

Sample ID: SL-286-SA5B-SS-0.0-0.5

Collected: 12/16/2010 9:02:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	5.6	J	3.9	MDL	9.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	6.1	J	3.9	MDL	9.8	PQL	ug/Kg	J	Z
ANTHRACENE	4.8	J	2.0	MDL	9.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	4.2	J	3.9	MDL	9.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	50	J	35	MDL	110	PQL	ug/Kg	J	Z
NAPHTHALENE	4.3	J	3.9	MDL	9.8	PQL	ug/Kg	J	Z

Sample ID: SL-304-SA5B-SS-0.0-0.5

Collected: 12/16/2010 3:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.69	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	1.5	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.7	J	6.4	MDL	19	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.4	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.7	J	6.4	MDL	19	PQL	ug/Kg	J	Z
FLUORENE	0.84	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043 v1

eQAPP Name: CDM SSFL 110509

Method Category: SVOA

Method: 8330A

Matrix: AQ

Sample ID: EB16-SA5B-121610

Collected: 12/16/2010 11:20:00

Analysis Type: RES

Dilution: 1

<i>Analyte</i>	<i>Lab Result</i>	<i>Lab Qual</i>	<i>DL</i>	<i>DL Type</i>	<i>RL</i>	<i>RL Type</i>	<i>Units</i>	<i>Data Review Qual</i>	<i>Reason Code</i>
HMX	0.90	J	0.65	MDL	2.0	PQL	ug/L	J	Z

Method Category: VOA

Method: 8015B

Matrix: SO

Sample ID: SL-040-SA5B-SB-1.5-2.5

Collected: 12/16/2010 10:07:00

Analysis Type: REA4

Dilution: 1

<i>Analyte</i>	<i>Lab Result</i>	<i>Lab Qual</i>	<i>DL</i>	<i>DL Type</i>	<i>RL</i>	<i>RL Type</i>	<i>Units</i>	<i>Data Review Qual</i>	<i>Reason Code</i>
METHANOL	470	J	110	MDL	560	PQL	ug/Kg	J	Z

Sample ID: SL-040-SA5B-SB-9.0-10.0

Collected: 12/16/2010 10:15:00

Analysis Type: REA4

Dilution: 1

<i>Analyte</i>	<i>Lab Result</i>	<i>Lab Qual</i>	<i>DL</i>	<i>DL Type</i>	<i>RL</i>	<i>RL Type</i>	<i>Units</i>	<i>Data Review Qual</i>	<i>Reason Code</i>
METHANOL	200	J	120	MDL	590	PQL	ug/Kg	J	Z

Sample ID: SL-041-SA5B-SB-1.5-2.5

Collected: 12/16/2010 11:44:00

Analysis Type: REA4

Dilution: 1

<i>Analyte</i>	<i>Lab Result</i>	<i>Lab Qual</i>	<i>DL</i>	<i>DL Type</i>	<i>RL</i>	<i>RL Type</i>	<i>Units</i>	<i>Data Review Qual</i>	<i>Reason Code</i>
METHANOL	470	J	120	MDL	600	PQL	ug/Kg	J	Z

Sample ID: SL-042-SA5B-SB-2.5-3.5

Collected: 12/16/2010 2:10:00

Analysis Type: REA4

Dilution: 1

<i>Analyte</i>	<i>Lab Result</i>	<i>Lab Qual</i>	<i>DL</i>	<i>DL Type</i>	<i>RL</i>	<i>RL Type</i>	<i>Units</i>	<i>Data Review Qual</i>	<i>Reason Code</i>
METHANOL	680		110	MDL	560	PQL	ug/Kg	J	S

Sample ID: SL-042-SA5B-SB-8.0-9.0

Collected: 12/16/2010 2:18:00

Analysis Type: REA4

Dilution: 1

<i>Analyte</i>	<i>Lab Result</i>	<i>Lab Qual</i>	<i>DL</i>	<i>DL Type</i>	<i>RL</i>	<i>RL Type</i>	<i>Units</i>	<i>Data Review Qual</i>	<i>Reason Code</i>
METHANOL	490	J	110	MDL	560	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-040-SA5B-SB-1.5-2.5

Collected: 12/16/2010 10:07:00

Analysis Type: RES

Dilution: 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	7.3	J	1.2	MDL	7.7	PQL	ug/Kg	J	Z
BENZENE	0.14	J	0.1	MDL	3.8	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.57	J	0.23	MDL	3.8	PQL	ug/Kg	U	B
TOLUENE	0.16	J	0.08	MDL	3.8	PQL	ug/Kg	U	B

Sample ID: SL-040-SA5B-SB-9.0-10.0

Collected: 12/16/2010 10:15:00

Analysis Type: RES

Dilution: 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.79	J	0.27	MDL	4.5	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.09	MDL	4.5	PQL	ug/Kg	U	B

Sample ID: SL-041-SA5B-SB-1.5-2.5

Collected: 12/16/2010 11:44:00

Analysis Type: RES

Dilution: 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	3.8	J	1.2	MDL	8.2	PQL	ug/Kg	J	Z
BENZENE	0.11	J	0.10	MDL	4.1	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.75	J	0.25	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.08	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-041-SA5B-SB-8.0-9.0

Collected: 12/16/2010 11:55:00

Analysis Type: RES

Dilution: 1.03

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.24	J	0.09	MDL	4.5	PQL	ug/Kg	U	B

Sample ID: SL-042-SA5B-SB-2.5-3.5

Collected: 12/16/2010 2:10:00

Analysis Type: RES

Dilution: 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	8.3	J	1.3	MDL	8.5	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.4	J	0.26	MDL	4.3	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.08	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-042-SA5B-SB-8.0-9.0

Collected: 12/16/2010 2:18:00

Analysis Type: RES

Dilution: 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	3.2	J	0.25	MDL	4.1	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-042-SA5B-SB-8.0-9.0

Collected: 12/16/2010 2:18:00

Analysis Type: RES

Dilution: 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.12	J	0.08	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-043-SA5B-SB-2.5-3.5

Collected: 12/16/2010 3:49:00

Analysis Type: RES

Dilution: 0.99

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	8.3	J	1.3	MDL	8.8	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.60	J	0.26	MDL	4.4	PQL	ug/Kg	U	B
TOLUENE	0.12	J	0.09	MDL	4.4	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE043

Method Blank Outlier Report

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method:	1625C
Matrix:	AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWE35B261333	12/30/2010 1:33:00 PM	N-NITROSODIMETHYLAMINE	0.754 ng/L	EB16-SA5B-121610

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB16-SA5B-121610(RES)	N-NITROSODIMETHYLAMINE	2.23 ng/L	2.23U ng/L

Method:	6010B
Matrix:	AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35548CB221648	12/23/2010 4:48:00 PM	MAGNESIUM	0.0421 mg/L	EB04-SA5B-121610
P35548CB222358	12/22/2010 11:58:00 PM	CALCIUM	0.0960 mg/L	EB04-SA5B-121610

Method:	6010B
Matrix:	SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35708DB220215	12/30/2010 2:15:00 AM	MAGNESIUM	3.33 mg/Kg	DUP07-SA5B-QC-121610 SL-040-SA5B-SB-1.5-2.5 SL-040-SA5B-SB-9.0-10.0 SL-041-SA5B-SB-1.5-2.5 SL-041-SA5B-SB-8.0-9.0 SL-042-SA5B-SB-2.5-3.5 SL-042-SA5B-SB-8.0-9.0 SL-043-SA5B-SB-2.5-3.5 SL-205-SA5B-SS-0.0-0.5 SL-284-SA5B-SS-0.0-0.5 SL-285-SA5B-SS-0.0-0.5 SL-286-SA5B-SS-0.0-0.5 SL-304-SA5B-SS-0.0-0.5
P35708DB221422	1/1/2011 2:22:00 PM	PHOSPHORUS TIN	1.56 mg/Kg 1.37 mg/Kg	DUP07-SA5B-QC-121610 SL-040-SA5B-SB-1.5-2.5 SL-040-SA5B-SB-9.0-10.0 SL-041-SA5B-SB-1.5-2.5 SL-041-SA5B-SB-8.0-9.0 SL-042-SA5B-SB-2.5-3.5 SL-042-SA5B-SB-8.0-9.0 SL-043-SA5B-SB-2.5-3.5 SL-205-SA5B-SS-0.0-0.5 SL-284-SA5B-SS-0.0-0.5 SL-285-SA5B-SS-0.0-0.5 SL-286-SA5B-SS-0.0-0.5 SL-304-SA5B-SS-0.0-0.5

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Method Blank Outlier Report

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP07-SA5B-QC-121610(REA3)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-040-SA5B-SB-1.5-2.5(REA3)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-040-SA5B-SB-9.0-10.0(REA3)	TIN	2.95 mg/Kg	2.95U mg/Kg
SL-041-SA5B-SB-1.5-2.5(REA3)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-041-SA5B-SB-8.0-9.0(REA3)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-042-SA5B-SB-2.5-3.5(REA3)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-042-SA5B-SB-8.0-9.0(REA3)	TIN	3.57 mg/Kg	3.57U mg/Kg
SL-043-SA5B-SB-2.5-3.5(REA3)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-205-SA5B-SS-0.0-0.5(REA3)	TIN	2.34 mg/Kg	2.34U mg/Kg
SL-284-SA5B-SS-0.0-0.5(REA3)	TIN	2.70 mg/Kg	2.70U mg/Kg
SL-285-SA5B-SS-0.0-0.5(REA3)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-286-SA5B-SS-0.0-0.5(REA3)	TIN	2.70 mg/Kg	2.70U mg/Kg
SL-304-SA5B-SS-0.0-0.5(REA3)	TIN	2.40 mg/Kg	2.40U mg/Kg

Method: 6020

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35726AB221103A	12/31/2010 11:03:00 AM	COBALT	0.0223 mg/Kg	DUP07-SA5B-QC-121610 SL-040-SA5B-SB-1.5-2.5 SL-040-SA5B-SB-9.0-10.0 SL-041-SA5B-SB-1.5-2.5 SL-041-SA5B-SB-8.0-9.0 SL-042-SA5B-SB-2.5-3.5 SL-042-SA5B-SB-8.0-9.0 SL-043-SA5B-SB-2.5-3.5 SL-205-SA5B-SS-0.0-0.5 SL-284-SA5B-SS-0.0-0.5 SL-285-SA5B-SS-0.0-0.5 SL-286-SA5B-SS-0.0-0.5 SL-304-SA5B-SS-0.0-0.5

Method: 8015M

Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P54544AB321634A	12/20/2010 4:34:00 PM	DIETHYLENE GLYCOL	11 mg/L	EB16-SA5B-121610

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Method Blank Outlier Report

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P55558AB240441A	12/29/2010 4:41:00 AM	MCP	290 ug/Kg	DUP07-SA5B-QC-121610 SL-205-SA5B-SS-0.0-0.5 SL-284-SA5B-SS-0.0-0.5 SL-285-SA5B-SS-0.0-0.5 SL-286-SA5B-SS-0.0-0.5 SL-304-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP07-SA5B-QC-121610(RES)	MCP	450 ug/Kg	450U ug/Kg
SL-285-SA5B-SS-0.0-0.5(RES)	MCP	170 ug/Kg	270U ug/Kg
SL-304-SA5B-SS-0.0-0.5(RES)	MCP	480 ug/Kg	480U ug/Kg

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLK822B212231A	12/20/2010 10:31:00 PM	METHYLENE CHLORIDE TOLUENE	0.50 ug/Kg 0.11 ug/Kg	SL-040-SA5B-SB-1.5-2.5 SL-040-SA5B-SB-9.0-10.0 SL-041-SA5B-SB-1.5-2.5 SL-041-SA5B-SB-8.0-9.0 SL-042-SA5B-SB-2.5-3.5 SL-042-SA5B-SB-8.0-9.0 SL-043-SA5B-SB-2.5-3.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-040-SA5B-SB-1.5-2.5(RES)	METHYLENE CHLORIDE	0.57 ug/Kg	3.8U ug/Kg
SL-040-SA5B-SB-1.5-2.5(RES)	TOLUENE	0.16 ug/Kg	3.8U ug/Kg
SL-040-SA5B-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	0.79 ug/Kg	4.5U ug/Kg
SL-040-SA5B-SB-9.0-10.0(RES)	TOLUENE	0.15 ug/Kg	4.5U ug/Kg
SL-041-SA5B-SB-1.5-2.5(RES)	METHYLENE CHLORIDE	0.75 ug/Kg	4.1U ug/Kg
SL-041-SA5B-SB-1.5-2.5(RES)	TOLUENE	0.09 ug/Kg	4.1U ug/Kg
SL-041-SA5B-SB-8.0-9.0(RES)	TOLUENE	0.24 ug/Kg	4.5U ug/Kg
SL-042-SA5B-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	1.4 ug/Kg	4.3U ug/Kg
SL-042-SA5B-SB-2.5-3.5(RES)	TOLUENE	0.11 ug/Kg	4.3U ug/Kg
SL-042-SA5B-SB-8.0-9.0(RES)	METHYLENE CHLORIDE	3.2 ug/Kg	4.1U ug/Kg
SL-042-SA5B-SB-8.0-9.0(RES)	TOLUENE	0.12 ug/Kg	4.1U ug/Kg
SL-043-SA5B-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	0.60 ug/Kg	4.4U ug/Kg
SL-043-SA5B-SB-2.5-3.5(RES)	TOLUENE	0.12 ug/Kg	4.4U ug/Kg

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Method Blank Outlier Report

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWI35B260727	1/5/2011 7:27:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Butylbenzylphthalate Di-n-butylphthalate Di-n-octylphthalate	0.19 ug/L 0.099 ug/L 0.16 ug/L 0.18 ug/L	EB04-SA5B-121610

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB04-SA5B-121610(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.34 ug/L	1.0U ug/L
EB04-SA5B-121610(RES)	Di-n-butylphthalate	0.43 ug/L	1.0U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-040-SA5B-SB-1.5-2.5MS SL-040-SA5B-SB-1.5-2.5MSD (SL-040-SA5B-SB-1.5-2.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	12 50 47	24 - 59	59.00-109.00 63.00-107.00 63.00-107.00	69 (20.00) 28 (20.00) 23 (20.00)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
DUP07-SA5B-QC-121610MS DUP07-SA5B-QC-121610MSD (DUP07-SA5B-QC-121610)	2,4,5-T 2,4-DB DICAMBA	- 366 177	- 261 -	25.00-132.00 20.00-170.00 33.00-120.00	98 (35.00) - 59 (50.00)	2,4,5-T 2,4-DB DICAMBA	J(all detects)
DUP07-SA5B-QC-121610MS DUP07-SA5B-QC-121610MSD (DUP07-SA5B-QC-121610)	2,4-D DALAPON	0 104	- 0	28.00-161.00 12.00-86.00	200 (35.00) 200 (50.00)	2,4-D DALAPON	J(all detects) R(all non-detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-205-SA5B-SS-0.0-0.5MS SL-205-SA5B-SS-0.0-0.5MSD (SL-205-SA5B-SS-0.0-0.5)	4,4'-DDT	-94	2	10.00-176.00	54 (50.00)	4,4'-DDT	J(all detects) R(all non-detects)

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
DUP07-SA5B-QC-121610MS DUP07-SA5B-QC-121610MSD (DUP07-SA5B-QC-121610)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-040-SA5B-SB-1.5-2.5MSD (SL-040-SA5B-SB-1.5-2.5)	Diethylphthalate	-	82	87.00-131.00	-	Diethylphthalate	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-205-SA5B-SS-0.0-0.5DUP (DUP07-SA5B-QC-121610 SL-040-SA5B-SB-1.5-2.5 SL-040-SA5B-SB-9.0-10.0 SL-041-SA5B-SB-1.5-2.5 SL-041-SA5B-SB-8.0-9.0 SL-042-SA5B-SB-2.5-3.5 SL-042-SA5B-SB-8.0-9.0 SL-043-SA5B-SB-2.5-3.5 SL-205-SA5B-SS-0.0-0.5 SL-284-SA5B-SS-0.0-0.5 SL-285-SA5B-SS-0.0-0.5 SL-286-SA5B-SS-0.0-0.5 SL-304-SA5B-SS-0.0-0.5)	HEXAVALENT CHROMIUM	52	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03554AQ320529A (EB16-SA5B-121610)	EFH (C8-C11)	46	-	60.00-120.00	-	EFH (C8-C11)	J (all detects) UJ (all non-detects)

Method: 8082

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03552AQ240840A P03552AY240822A (EB04-SA5B-121610)	Aroclor 5442	44	44	75.00-125.00	-	Aroclor 5432, 5442, 5460	J (all detects) UJ (all non-detects)

Method: 8151A

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03561AQ241612A P03561AY241639A (EB04-SA5B-121610)	2,4-D DICHLOROPROP	140 160	148 168	45.00-128.00 72.00-145.00	- -	2,4-D DICHLOROPROP	J (all detects)

Method: 8270C SIM

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P4WILCSQ260758 P4WILCSY260830 (EB04-SA5B-121610)	2-METHYLNAPHTHALENE BENZO(G,H,I)PERYLENE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE NAPHTHALENE N-NITROSODIMETHYLAMINE PHENANTHRENE	69 62 60 60 - 54 72	67 - 65 66 71 53 73	75.00-115.00 68.00-125.00 71.00-125.00 69.00-124.00 72.00-109.00 70.00-130.00 76.00-111.00	- - - - - - -	2-METHYLNAPHTHALENE BENZO(G,H,I)PERYLENE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE NAPHTHALENE N-NITROSODIMETHYLAMINE PHENANTHRENE	J (all detects) UJ (all non-detects)

Method: 8270C

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P4WMLCSQ260623 P4WMLCSY260649 (EB04-SA5B-121610)	1,3-DICHLORO BENZENE 1,4-DICHLORO BENZENE 4-CHLOROANILINE ANILINE BENZIDINE BENZOIC ACID HEXACHLOROCYCLOPENTADI	62 64 - - - - -	- - - - - - -	63.00-110.00 65.00-113.00 42.00-124.00 49.00-101.00 20.00-109.00 10.00-69.00 10.00-118.00	- - 40 (30.00) 39 (30.00) 44 (30.00) 67 (30.00) 40 (30.00)	1,3-DICHLORO BENZENE 1,4-DICHLORO BENZENE 4-CHLOROANILINE ANILINE BENZIDINE BENZOIC ACID HEXACHLOROCYCLOPENTAD	J (all detects) UJ (all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03558AQ240509A (DUP07 -SA5B-QC-121610 SL -205-SA5B-SS-0.0-0.5 SL -284-SA5B-SS-0.0-0.5 SL -285-SA5B-SS-0.0-0.5 SL -286-SA5B-SS-0.0-0.5 SL -304-SA5B-SS-0.0-0.5)	DINOSEB	5	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03565AQ241458A P03565AY241439A (DUP07 -SA5B-QC-121610 SL -040-SA5B-SB-1.5-2.5 SL -040-SA5B-SB-9.0-10.0 SL -041-SA5B-SB-1.5-2.5 SL -041-SA5B-SB-8.0-9.0 SL -042-SA5B-SB-2.5-3.5 SL -042-SA5B-SB-8.0-9.0 SL -043-SA5B-SB-2.5-3.5 SL -205-SA5B-SS-0.0-0.5 SL -284-SA5B-SS-0.0-0.5 SL -285-SA5B-SS-0.0-0.5 SL -286-SA5B-SS-0.0-0.5 SL -304-SA5B-SS-0.0-0.5)	Aroclor 5442	69	53	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-042-SA5B-SB-2.5-3.5	ACETONE	157	42.00-138.00	All Target Analytes	J(all detects)

Method: 8015M
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB16-SA5B-121610	O-TERPHENYL	74	77.00-119.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-040-SA5B-SB-1.5-2.5	TETRAMETHYLENE GLYCOL	28	29.00-137.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP07-SA5B-QC-121610	TETRACHLORO-M-XYLENE	46	50.00-130.00	All Target Analytes	J (all detects) UJ (all non-detects)
SL-284-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	226	20.00-120.00	All Target Analytes	J(all detects)
SL-285-SA5B-SS-0.0-0.5	TETRACHLORO-M-XYLENE	17	50.00-130.00	All Target Analytes	No Qual Diluted Out

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP07-SA5B-QC-121610	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB04-SA5B-121610	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.34	1.0	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.11	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.43	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.030	0.052	PQL	ug/L	

Method: 8330A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB16-SA5B-121610	HMX	J	0.90	2.0	PQL	ug/L	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-040-SA5B-SB-1.5-2.5	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)
SL-041-SA5B-SB-1.5-2.5	Nitrate-NO3	J	1.2	1.8	PQL	mg/Kg	J (all detects)
SL-041-SA5B-SB-8.0-9.0	Nitrate-NO3	J	0.98	1.7	PQL	mg/Kg	J (all detects)
SL-042-SA5B-SB-2.5-3.5	Nitrate-NO3	J	1.2	1.7	PQL	mg/Kg	J (all detects)
SL-042-SA5B-SB-8.0-9.0	Nitrate-NO3	J	1.2	1.7	PQL	mg/Kg	J (all detects)
SL-043-SA5B-SB-2.5-3.5	Nitrate-NO3	J	1.0	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP07-SA5B-QC-121610	BORON	J	3.32	5.25	PQL	mg/Kg	J (all detects)
	SODIUM	J	104	105	PQL	mg/Kg	
	TIN	J	2.62	10.5	PQL	mg/Kg	
	Zirconium	J	1.83	5.25	PQL	mg/Kg	
SL-040-SA5B-SB-1.5-2.5	BORON	J	2.92	5.53	PQL	mg/Kg	J (all detects)
	TIN	J	2.61	11.1	PQL	mg/Kg	
	Zirconium	J	2.06	5.53	PQL	mg/Kg	
SL-040-SA5B-SB-9.0-10.0	BORON	J	5.42	5.79	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	11.6	PQL	mg/Kg	
	Zirconium	J	3.06	5.79	PQL	mg/Kg	
SL-041-SA5B-SB-1.5-2.5	TIN	J	2.78	11.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.89	5.84	PQL	mg/Kg	
SL-041-SA5B-SB-8.0-9.0	TIN	J	2.55	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.14	5.43	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-042-SA5B-SB-2.5-3.5	BORON	J	2.43	5.42	PQL	mg/Kg	J (all detects)
	SODIUM	J	97.1	108	PQL	mg/Kg	
	TIN	J	2.68	10.8	PQL	mg/Kg	
	Zirconium	J	1.86	5.42	PQL	mg/Kg	
SL-042-SA5B-SB-8.0-9.0	BORON	J	1.91	5.52	PQL	mg/Kg	J (all detects)
	TIN	J	3.57	11.0	PQL	mg/Kg	
	Zirconium	J	1.23	5.52	PQL	mg/Kg	
SL-043-SA5B-SB-2.5-3.5	BORON	J	2.17	5.32	PQL	mg/Kg	J (all detects)
	SODIUM	J	100	106	PQL	mg/Kg	
	TIN	J	2.62	10.6	PQL	mg/Kg	
	Zirconium	J	1.15	5.32	PQL	mg/Kg	
SL-205-SA5B-SS-0.0-0.5	SODIUM	J	76.3	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.34	10.4	PQL	mg/Kg	
	Zirconium	J	0.899	5.18	PQL	mg/Kg	
SL-284-SA5B-SS-0.0-0.5	TIN	J	2.70	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.04	5.51	PQL	mg/Kg	
SL-285-SA5B-SS-0.0-0.5	BORON	J	2.55	5.31	PQL	mg/Kg	J (all detects)
	SODIUM	J	98.3	106	PQL	mg/Kg	
	TIN	J	2.67	10.6	PQL	mg/Kg	
	Zirconium	J	1.01	5.31	PQL	mg/Kg	
SL-286-SA5B-SS-0.0-0.5	SODIUM	J	104	114	PQL	mg/Kg	J (all detects)
	TIN	J	2.70	11.4	PQL	mg/Kg	
SL-304-SA5B-SS-0.0-0.5	SODIUM	J	81.4	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.40	10.3	PQL	mg/Kg	
	Zirconium	J	0.926	5.15	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP07-SA5B-QC-121610	ANTIMONY	J	0.193	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.187	0.424	PQL	mg/Kg	
SL-040-SA5B-SB-1.5-2.5	ANTIMONY	J	0.214	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.190	0.442	PQL	mg/Kg	
	SILVER	J	0.0573	0.111	PQL	mg/Kg	
SL-040-SA5B-SB-9.0-10.0	SELENIUM	J	0.173	0.459	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0811	0.115	PQL	mg/Kg	
SL-041-SA5B-SB-1.5-2.5	SELENIUM	J	0.288	0.467	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0645	0.117	PQL	mg/Kg	
SL-041-SA5B-SB-8.0-9.0	ANTIMONY	J	0.204	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.161	0.439	PQL	mg/Kg	
	SILVER	J	0.0627	0.110	PQL	mg/Kg	
SL-042-SA5B-SB-2.5-3.5	ANTIMONY	J	0.144	0.219	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0973	0.109	PQL	mg/Kg	
	SELENIUM	J	0.102	0.438	PQL	mg/Kg	
	SILVER	J	0.0513	0.109	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-042-SA5B-SB-8.0-9.0	ANTIMONY SELENIUM SILVER	J	0.137	0.223	PQL	mg/Kg	J (all detects)
		J	0.222	0.446	PQL	mg/Kg	
		J	0.0731	0.111	PQL	mg/Kg	
SL-043-SA5B-SB-2.5-3.5	ANTIMONY SELENIUM SILVER	J	0.141	0.217	PQL	mg/Kg	J (all detects)
		J	0.134	0.434	PQL	mg/Kg	
		J	0.0309	0.109	PQL	mg/Kg	
SL-205-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.201	0.207	PQL	mg/Kg	J (all detects)
		J	0.158	0.414	PQL	mg/Kg	
		J	0.0522	0.104	PQL	mg/Kg	
SL-284-SA5B-SS-0.0-0.5	SELENIUM	J	0.420	0.445	PQL	mg/Kg	J (all detects)
SL-285-SA5B-SS-0.0-0.5	SELENIUM	J	0.190	0.433	PQL	mg/Kg	J (all detects)
SL-286-SA5B-SS-0.0-0.5	SELENIUM	J	0.201	0.460	PQL	mg/Kg	J (all detects)
SL-304-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM	J	0.180	0.208	PQL	mg/Kg	J (all detects)
		J	0.183	0.416	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP07-SA5B-QC-121610	HEXAVALENT CHROMIUM	J	0.68	1.1	PQL	mg/Kg	J (all detects)
SL-040-SA5B-SB-1.5-2.5	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-040-SA5B-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.55	1.2	PQL	mg/Kg	J (all detects)
SL-041-SA5B-SB-1.5-2.5	HEXAVALENT CHROMIUM	J	0.50	1.2	PQL	mg/Kg	J (all detects)
SL-041-SA5B-SB-8.0-9.0	HEXAVALENT CHROMIUM	J	0.58	1.1	PQL	mg/Kg	J (all detects)
SL-042-SA5B-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-042-SA5B-SB-8.0-9.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-043-SA5B-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.41	1.1	PQL	mg/Kg	J (all detects)
SL-205-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.33	1.1	PQL	mg/Kg	J (all detects)
SL-284-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-285-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.96	1.1	PQL	mg/Kg	J (all detects)
SL-304-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-040-SA5B-SB-1.5-2.5	MERCURY	J	0.0070	0.108	PQL	mg/Kg	J (all detects)
SL-040-SA5B-SB-9.0-10.0	MERCURY	J	0.0258	0.116	PQL	mg/Kg	J (all detects)

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Reporting Limit Outliers

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-284-SA5B-SS-0.0-0.5	MERCURY	J	0.0627	0.113	PQL	mg/Kg	J (all detects)
SL-285-SA5B-SS-0.0-0.5	MERCURY	J	0.0486	0.108	PQL	mg/Kg	J (all detects)
SL-286-SA5B-SS-0.0-0.5	MERCURY	J	0.0516	0.113	PQL	mg/Kg	J (all detects)
SL-304-SA5B-SS-0.0-0.5	MERCURY	J	0.0058	0.105	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-040-SA5B-SB-1.5-2.5	METHANOL	J	470	560	PQL	ug/Kg	J (all detects)
SL-040-SA5B-SB-9.0-10.0	METHANOL	J	200	590	PQL	ug/Kg	J (all detects)
SL-041-SA5B-SB-1.5-2.5	METHANOL	J	470	600	PQL	ug/Kg	J (all detects)
SL-042-SA5B-SB-8.0-9.0	METHANOL	J	490	560	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA5B-SB-8.0-9.0	EFH (C15-C20)	J	14	27	PQL	mg/Kg	J (all detects)
	GASOLINE RANGE ORGANICS (C5-C12)	J	0.5	1.4	PQL	mg/Kg	
SL-043-SA5B-SB-2.5-3.5	EFH (C15-C20)	J	0.68	1.3	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-205-SA5B-SS-0.0-0.5	4,4'-DDE	J	0.27	0.36	PQL	ug/Kg	J (all detects)
	Chlordane	J	2.0	3.6	PQL	ug/Kg	
	ENDOSULFAN II	J	0.19	0.36	PQL	ug/Kg	
	ENDRIN ALDEHYDE	J	0.18	0.36	PQL	ug/Kg	
	ENDRIN KETONE	J	0.099	0.36	PQL	ug/Kg	
SL-284-SA5B-SS-0.0-0.5	DELTA-BHC	J	0.056	0.19	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-042-SA5B-SB-2.5-3.5	AROCLOR 1260	J	0.89	1.9	PQL	ug/Kg	J (all detects)
SL-043-SA5B-SB-2.5-3.5	AROCLOR 1248	J	1.7	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1254	J	1.6	1.9	PQL	ug/Kg	
SL-304-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.46	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.55	1.8	PQL	ug/Kg	

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP07-SA5B-QC-121610	DICAMBA	J	0.47	1.3	PQL	ug/Kg	J (all detects)
SL-205-SA5B-SS-0.0-0.5	DICAMBA	J	0.83	1.3	PQL	ug/Kg	J (all detects)
SL-285-SA5B-SS-0.0-0.5	MCPA	J	220	270	PQL	ug/Kg	J (all detects)
	MCPD	J	170	270	PQL	ug/Kg	

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-040-SA5B-SB-1.5-2.5	2-BUTANONE (MEK)	J	7.3	7.7	PQL	ug/Kg	J (all detects)
	BENZENE	J	0.14	3.8	PQL	ug/Kg	
	METHYLENE CHLORIDE	J	0.57	3.8	PQL	ug/Kg	
	TOLUENE	J	0.16	3.8	PQL	ug/Kg	
SL-040-SA5B-SB-9.0-10.0	METHYLENE CHLORIDE	J	0.79	4.5	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.15	4.5	PQL	ug/Kg	
SL-041-SA5B-SB-1.5-2.5	2-BUTANONE (MEK)	J	3.8	8.2	PQL	ug/Kg	J (all detects)
	BENZENE	J	0.11	4.1	PQL	ug/Kg	
	METHYLENE CHLORIDE	J	0.75	4.1	PQL	ug/Kg	
	TOLUENE	J	0.09	4.1	PQL	ug/Kg	
SL-041-SA5B-SB-8.0-9.0	TOLUENE	J	0.24	4.5	PQL	ug/Kg	J (all detects)
SL-042-SA5B-SB-2.5-3.5	2-BUTANONE (MEK)	J	8.3	8.5	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.4	4.3	PQL	ug/Kg	
	TOLUENE	J	0.11	4.3	PQL	ug/Kg	
SL-042-SA5B-SB-8.0-9.0	METHYLENE CHLORIDE	J	3.2	4.1	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.12	4.1	PQL	ug/Kg	
SL-043-SA5B-SB-2.5-3.5	2-BUTANONE (MEK)	J	8.3	8.8	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.60	4.4	PQL	ug/Kg	
	TOLUENE	J	0.12	4.4	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA5B-SB-8.0-9.0	PHENANTHRENE	J	41	180	PQL	ug/Kg	J (all detects)
SL-042-SA5B-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	22	370	PQL	ug/Kg	J (all detects)
SL-284-SA5B-SS-0.0-0.5	BENZO(K)FLUORANTHENE	J	20	190	PQL	ug/Kg	J (all detects)
SL-285-SA5B-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	22	180	PQL	ug/Kg	J (all detects)
SL-286-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	43	200	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	31	200	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	59	200	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	49	200	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	23	200	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	190	390	PQL	ug/Kg	
	CHRYSENE	J	53	200	PQL	ug/Kg	
	FLUORANTHENE	J	83	200	PQL	ug/Kg	
	PHENANTHRENE	J	57	200	PQL	ug/Kg	
	PYRENE	J	92	200	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP07-SA5B-QC-121610	1-METHYLNAPHTHALENE	J	0.84	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.7	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.7	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.95	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.2	1.8	PQL	ug/Kg	
SL-040-SA5B-SB-1.5-2.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.1	20	PQL	ug/Kg	J (all detects)
SL-040-SA5B-SB-9.0-10.0	2-METHYLNAPHTHALENE	J	0.99	2.0	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.49	2.0	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.90	2.0	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	2.0	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	1.4	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	2.0	PQL	ug/Kg	
	PYRENE	J	1.5	2.0	PQL	ug/Kg	
SL-041-SA5B-SB-1.5-2.5	ANTHRACENE	J	0.50	2.0	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.3	21	PQL	ug/Kg	
	CHRYSENE	J	0.82	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	2.0	PQL	ug/Kg	
SL-041-SA5B-SB-8.0-9.0	ACENAPHTHENE	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.0	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.6	20	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.8	PQL	ug/Kg	
	Dimethylphthalate	J	14	20	PQL	ug/Kg	
	FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	PYRENE	J	1.3	1.8	PQL	ug/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

7/5/2011 11:20:45 AM

ADR version 1.4.0.111

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Reporting Limit Outliers

Lab Reporting Batch ID: DE043

Laboratory: LL

EDD Filename: DE043_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-042-SA5B-SB-2.5-3.5	1-METHYLNAPHTHALENE	J	1.8	1.9	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	1.2	1.9	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.99	1.9	PQL	ug/Kg	
	ANTHRACENE	J	1.0	1.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.1	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	1.9	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.82	1.9	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.2	20	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.93	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	1.3	1.9	PQL	ug/Kg	
SL-042-SA5B-SB-8.0-9.0	BENZO(A)PYRENE	J	1.5	1.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.8	1.9	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.88	1.9	PQL	ug/Kg	
	PYRENE	J	0.90	1.9	PQL	ug/Kg	
SL-043-SA5B-SB-2.5-3.5	BENZO(K)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	1.2	1.8	PQL	ug/Kg	
SL-205-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.77	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	19	PQL	ug/Kg	
	Butylbenzylphthalate	J	11	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	9.0	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.6	1.8	PQL	ug/Kg	
SL-284-SA5B-SS-0.0-0.5	Butylbenzylphthalate	J	13	20	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	16	20	PQL	ug/Kg	
	FLUORENE	J	1.4	1.9	PQL	ug/Kg	
SL-285-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	5.4	9.1	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	6.7	9.1	PQL	ug/Kg	
	ANTHRACENE	J	3.6	9.1	PQL	ug/Kg	
	Butylbenzylphthalate	J	34	98	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	4.1	9.1	PQL	ug/Kg	
	Di-n-butylphthalate	J	59	98	PQL	ug/Kg	
	NAPHTHALENE	J	5.1	9.1	PQL	ug/Kg	
SL-286-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	5.6	9.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	6.1	9.8	PQL	ug/Kg	
	ANTHRACENE	J	4.8	9.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	4.2	9.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	50	110	PQL	ug/Kg	
	NAPHTHALENE	J	4.3	9.8	PQL	ug/Kg	
SL-304-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	0.69	1.8	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.5	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	19	PQL	ug/Kg	
	Butylbenzylphthalate	J	6.7	19	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.6	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.4	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	8.7	19	PQL	ug/Kg	
	FLUORENE	J	0.84	1.8	PQL	ug/Kg	

LDC #: 25750C4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE043

ADR

Laboratory: Lancaster Laboratories

Date: 7/1/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (SDG: DE048) (5:1)
VII.	Duplicate Sample Analysis	N	DUP ↓
VIII.	Laboratory Control Samples (LCS)	A	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	SDG: DE048 (5:1) (Ba:17, Cr:13, Co:11, Pb:22)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	ND	EB=2

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

soil/water

1	DUP07-SA5B-QC-121610	7	11	SL-284-SA5B-SB-0.0-0.5	21	31	
2	EB04-SA5B-121610	W	12	SL-285-SA5B-SB-0.0-0.5	22	32	
3	SL-040-SA5B-SB-1.5-2.5		13	SL-286-SA5B-SB-0.0-0.5	23	33	
4	SL-040-SA5B-SB-9.0-10.0		14	SL-304-SA5B-SB-0.0-0.5	24	34	
5	SL-041-SA5B-SB-1.5-2.5		15		25	35	
6	SL-041-SA5B-SB-8.0-9.0		16		26	36	
7	SL-042-SA5B-SB-2.5-3.5		17		27	37	
8	SL-042-SA5B-SB-8.0-9.0		18		28	38	
9	SL-043-SA5B-SB-2.5-3.5		19		29	39	
10	SL-205-SA5B-SB-0.0-0.5		20		30	40	

Notes: _____

LDC #: 25750C 4

VALIDATION FINDINGS WORKSHEET

PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: 100x x MS: 2x dil

Sample Concentration units, unless otherwise noted: mg/Kg

Associated Samples: All Soil

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	1	3	4	6	7	8	9	10	13	14					
Sb			0.33	0.33	0.19	0.21	0.31	0.20	0.14	0.14	0.14	0.20	0.28	0.18					

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note: a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

SAMPLE DELIVERY GROUP

DE044

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SL-276-SA5B-SS-0.0-0.5	6168977	N	3050B	6010B	III
17-Dec-2010	SL-276-SA5B-SS-0.0-0.5	6168977	N	3050B	6020	III
17-Dec-2010	SL-276-SA5B-SS-0.0-0.5	6168977	N	3060A	7199	III
17-Dec-2010	SL-276-SA5B-SS-0.0-0.5	6168977	N	3550B	8081A	III
17-Dec-2010	SL-276-SA5B-SS-0.0-0.5	6168977	N	3550B	8082	III
17-Dec-2010	SL-276-SA5B-SS-0.0-0.5	6168977	N	3550B	8151A	III
17-Dec-2010	SL-276-SA5B-SS-0.0-0.5	6168977	N	3550B	8270C	III
17-Dec-2010	SL-276-SA5B-SS-0.0-0.5	6168977	N	3550B	8270C SIM	III
17-Dec-2010	SL-276-SA5B-SS-0.0-0.5	6168977	N	Gen Prep	9045M	III
17-Dec-2010	SL-276-SA5B-SS-0.0-0.5	6168977	N	METHOD	300.0	III
17-Dec-2010	SL-276-SA5B-SS-0.0-0.5	6168977	N	METHOD	314.0	III
17-Dec-2010	SL-276-SA5B-SS-0.0-0.5	6168977	N	METHOD	7471A	III
17-Dec-2010	SL-162-SA5B-SS-0.0-0.5	6168983	N	3050B	6010B	III
17-Dec-2010	SL-162-SA5B-SS-0.0-0.5	6168983	N	3050B	6020	III
17-Dec-2010	SL-162-SA5B-SS-0.0-0.5	6168983	N	3060A	7199	III
17-Dec-2010	SL-162-SA5B-SS-0.0-0.5	6168983	N	3550B	8081A	III
17-Dec-2010	SL-162-SA5B-SS-0.0-0.5	6168983	N	3550B	8082	III
17-Dec-2010	SL-162-SA5B-SS-0.0-0.5	6168983	N	3550B	8151A	III
17-Dec-2010	SL-162-SA5B-SS-0.0-0.5	6168983	N	3550B	8270C	III
17-Dec-2010	SL-162-SA5B-SS-0.0-0.5	6168983	N	3550B	8270C SIM	III
17-Dec-2010	SL-162-SA5B-SS-0.0-0.5	6168983	N	Gen Prep	9045M	III
17-Dec-2010	SL-162-SA5B-SS-0.0-0.5	6168983	N	METHOD	300.0	III
17-Dec-2010	SL-162-SA5B-SS-0.0-0.5	6168983	N	METHOD	314.0	III
17-Dec-2010	SL-162-SA5B-SS-0.0-0.5	6168983	N	METHOD	7471A	III
17-Dec-2010	SL-275-SA5B-SS-0.0-0.5	6168979	N	3050B	6010B	III
17-Dec-2010	SL-275-SA5B-SS-0.0-0.5	6168979	N	3050B	6020	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SL-275-SA5B-SS-0.0-0.5	6168979	N	3060A	7199	III
17-Dec-2010	SL-275-SA5B-SS-0.0-0.5	6168979	N	3550B	8081A	III
17-Dec-2010	SL-275-SA5B-SS-0.0-0.5	6168979	N	3550B	8082	III
17-Dec-2010	SL-275-SA5B-SS-0.0-0.5	6168979	N	3550B	8151A	III
17-Dec-2010	SL-275-SA5B-SS-0.0-0.5	6168979	N	3550B	8270C	III
17-Dec-2010	SL-275-SA5B-SS-0.0-0.5	6168979	N	3550B	8270C SIM	III
17-Dec-2010	SL-275-SA5B-SS-0.0-0.5	6168979	N	Gen Prep	9045M	III
17-Dec-2010	SL-275-SA5B-SS-0.0-0.5	6168979	N	METHOD	300.0	III
17-Dec-2010	SL-275-SA5B-SS-0.0-0.5	6168979	N	METHOD	314.0	III
17-Dec-2010	SL-275-SA5B-SS-0.0-0.5	6168979	N	METHOD	7471A	III
17-Dec-2010	SL-161-SA5B-SS-0.0-0.5	6168982	N	3050B	6010B	III
17-Dec-2010	SL-161-SA5B-SS-0.0-0.5	6168982	N	3050B	6020	III
17-Dec-2010	SL-161-SA5B-SS-0.0-0.5	6168982	N	3060A	7199	III
17-Dec-2010	SL-161-SA5B-SS-0.0-0.5	6168982	N	3550B	8081A	III
17-Dec-2010	SL-161-SA5B-SS-0.0-0.5	6168982	N	3550B	8082	III
17-Dec-2010	SL-161-SA5B-SS-0.0-0.5	6168982	N	3550B	8151A	III
17-Dec-2010	SL-161-SA5B-SS-0.0-0.5	6168982	N	3550B	8270C	III
17-Dec-2010	SL-161-SA5B-SS-0.0-0.5	6168982	N	3550B	8270C SIM	III
17-Dec-2010	SL-161-SA5B-SS-0.0-0.5	6168982	N	Gen Prep	9045M	III
17-Dec-2010	SL-161-SA5B-SS-0.0-0.5	6168982	N	METHOD	300.0	III
17-Dec-2010	SL-161-SA5B-SS-0.0-0.5	6168982	N	METHOD	314.0	III
17-Dec-2010	SL-161-SA5B-SS-0.0-0.5	6168982	N	METHOD	7471A	III
17-Dec-2010	SL-206-SA5B-SS-0.0-0.5	6168980	N	3050B	6010B	III
17-Dec-2010	SL-206-SA5B-SS-0.0-0.5	6168980	N	3050B	6020	III
17-Dec-2010	SL-206-SA5B-SS-0.0-0.5	6168980	N	3060A	7199	III
17-Dec-2010	SL-206-SA5B-SS-0.0-0.5	6168980	N	3550B	8081A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SL-206-SA5B-SS-0.0-0.5	6168980	N	3550B	8082	III
17-Dec-2010	SL-206-SA5B-SS-0.0-0.5	6168980	N	3550B	8151A	III
17-Dec-2010	SL-206-SA5B-SS-0.0-0.5	6168980	N	3550B	8270C	III
17-Dec-2010	SL-206-SA5B-SS-0.0-0.5	6168980	N	3550B	8270C SIM	III
17-Dec-2010	SL-206-SA5B-SS-0.0-0.5	6168980	N	Gen Prep	9045M	III
17-Dec-2010	SL-206-SA5B-SS-0.0-0.5	6168980	N	METHOD	300.0	III
17-Dec-2010	SL-206-SA5B-SS-0.0-0.5	6168980	N	METHOD	314.0	III
17-Dec-2010	SL-206-SA5B-SS-0.0-0.5	6168980	N	METHOD	7471A	III
17-Dec-2010	SL-208-SA5B-SS-0.0-0.5	6168976	N	3050B	6010B	III
17-Dec-2010	SL-208-SA5B-SS-0.0-0.5	6168976	N	3050B	6020	III
17-Dec-2010	SL-208-SA5B-SS-0.0-0.5	6168976	N	3060A	7199	III
17-Dec-2010	SL-208-SA5B-SS-0.0-0.5	6168976	N	3550B	8081A	III
17-Dec-2010	SL-208-SA5B-SS-0.0-0.5	6168976	N	3550B	8082	III
17-Dec-2010	SL-208-SA5B-SS-0.0-0.5	6168976	N	3550B	8151A	III
17-Dec-2010	SL-208-SA5B-SS-0.0-0.5	6168976	N	3550B	8270C	III
17-Dec-2010	SL-208-SA5B-SS-0.0-0.5	6168976	N	3550B	8270C SIM	III
17-Dec-2010	SL-208-SA5B-SS-0.0-0.5	6168976	N	Gen Prep	9045M	III
17-Dec-2010	SL-208-SA5B-SS-0.0-0.5	6168976	N	METHOD	300.0	III
17-Dec-2010	SL-208-SA5B-SS-0.0-0.5	6168976	N	METHOD	314.0	III
17-Dec-2010	SL-208-SA5B-SS-0.0-0.5	6168976	N	METHOD	7471A	III
17-Dec-2010	SL-166-SA5B-SS-0.0-0.5	6168985	N	3050B	6010B	III
17-Dec-2010	SL-166-SA5B-SS-0.0-0.5	6168985	N	3050B	6020	III
17-Dec-2010	SL-166-SA5B-SS-0.0-0.5	6168985	N	3060A	7199	III
17-Dec-2010	SL-166-SA5B-SS-0.0-0.5	6168985	N	3550B	8081A	III
17-Dec-2010	SL-166-SA5B-SS-0.0-0.5	6168985	N	3550B	8082	III
17-Dec-2010	SL-166-SA5B-SS-0.0-0.5	6168985	N	3550B	8151A	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SL-166-SA5B-SS-0.0-0.5	6168985	N	3550B	8270C	III
17-Dec-2010	SL-166-SA5B-SS-0.0-0.5	6168985	N	3550B	8270C SIM	III
17-Dec-2010	SL-166-SA5B-SS-0.0-0.5	6168985	N	Gen Prep	9045M	III
17-Dec-2010	SL-166-SA5B-SS-0.0-0.5	6168985	N	METHOD	300.0	III
17-Dec-2010	SL-166-SA5B-SS-0.0-0.5	6168985	N	METHOD	314.0	III
17-Dec-2010	SL-166-SA5B-SS-0.0-0.5	6168985	N	METHOD	7471A	III
17-Dec-2010	SL-207-SA5B-SS-0.0-0.5	6168975	N	3050B	6010B	III
17-Dec-2010	SL-207-SA5B-SS-0.0-0.5	6168975	N	3050B	6020	III
17-Dec-2010	SL-207-SA5B-SS-0.0-0.5	6168975	N	3060A	7199	III
17-Dec-2010	SL-207-SA5B-SS-0.0-0.5	6168975	N	3550B	8081A	III
17-Dec-2010	SL-207-SA5B-SS-0.0-0.5	6168975	N	3550B	8082	III
17-Dec-2010	SL-207-SA5B-SS-0.0-0.5	6168975	N	3550B	8151A	III
17-Dec-2010	SL-207-SA5B-SS-0.0-0.5	6168975	N	3550B	8270C	III
17-Dec-2010	SL-207-SA5B-SS-0.0-0.5	6168975	N	3550B	8270C SIM	III
17-Dec-2010	SL-207-SA5B-SS-0.0-0.5	6168975	N	Gen Prep	9045M	III
17-Dec-2010	SL-207-SA5B-SS-0.0-0.5	6168975	N	METHOD	300.0	III
17-Dec-2010	SL-207-SA5B-SS-0.0-0.5	6168975	N	METHOD	314.0	III
17-Dec-2010	SL-207-SA5B-SS-0.0-0.5	6168975	N	METHOD	7471A	III
17-Dec-2010	SL-207-SA5B-SS-0.0-0.5DUP	P168975D270618A	DUP	METHOD	314.0	III
17-Dec-2010	SL-207-SA5B-SS-0.0-0.5MS	P168975R270641A	MS	METHOD	314.0	III
17-Dec-2010	SL-160-SA5B-SS-0.0-0.5	6168986	N	3050B	6010B	III
17-Dec-2010	SL-160-SA5B-SS-0.0-0.5	6168986	N	3050B	6020	III
17-Dec-2010	SL-160-SA5B-SS-0.0-0.5	6168986	N	3060A	7199	III
17-Dec-2010	SL-160-SA5B-SS-0.0-0.5	6168986	N	3550B	8081A	III
17-Dec-2010	SL-160-SA5B-SS-0.0-0.5	6168986	N	3550B	8082	III
17-Dec-2010	SL-160-SA5B-SS-0.0-0.5	6168986	N	3550B	8151A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SL-160-SA5B-SS-0.0-0.5	6168986	N	3550B	8270C	III
17-Dec-2010	SL-160-SA5B-SS-0.0-0.5	6168986	N	3550B	8270C SIM	III
17-Dec-2010	SL-160-SA5B-SS-0.0-0.5	6168986	N	Gen Prep	9045M	III
17-Dec-2010	SL-160-SA5B-SS-0.0-0.5	6168986	N	METHOD	300.0	III
17-Dec-2010	SL-160-SA5B-SS-0.0-0.5	6168986	N	METHOD	314.0	III
17-Dec-2010	SL-160-SA5B-SS-0.0-0.5	6168986	N	METHOD	7471A	III
17-Dec-2010	SL-210-SA5B-SS-0.0-0.5	6168978	N	3050B	6010B	III
17-Dec-2010	SL-210-SA5B-SS-0.0-0.5	6168978	N	3050B	6020	III
17-Dec-2010	SL-210-SA5B-SS-0.0-0.5	6168978	N	3060A	7199	III
17-Dec-2010	SL-210-SA5B-SS-0.0-0.5	6168978	N	3550B	8081A	III
17-Dec-2010	SL-210-SA5B-SS-0.0-0.5	6168978	N	3550B	8082	III
17-Dec-2010	SL-210-SA5B-SS-0.0-0.5	6168978	N	3550B	8151A	III
17-Dec-2010	SL-210-SA5B-SS-0.0-0.5	6168978	N	3550B	8270C	III
17-Dec-2010	SL-210-SA5B-SS-0.0-0.5	6168978	N	3550B	8270C SIM	III
17-Dec-2010	SL-210-SA5B-SS-0.0-0.5	6168978	N	Gen Prep	9045M	III
17-Dec-2010	SL-210-SA5B-SS-0.0-0.5	6168978	N	METHOD	300.0	III
17-Dec-2010	SL-210-SA5B-SS-0.0-0.5	6168978	N	METHOD	314.0	III
17-Dec-2010	SL-210-SA5B-SS-0.0-0.5	6168978	N	METHOD	7471A	III
17-Dec-2010	SL-274-SA5B-SS-0.0-0.5	6168984	N	3050B	6010B	III
17-Dec-2010	SL-274-SA5B-SS-0.0-0.5	6168984	N	3050B	6020	III
17-Dec-2010	SL-274-SA5B-SS-0.0-0.5	6168984	N	3060A	7199	III
17-Dec-2010	SL-274-SA5B-SS-0.0-0.5	6168984	N	3550B	8081A	III
17-Dec-2010	SL-274-SA5B-SS-0.0-0.5	6168984	N	3550B	8082	III
17-Dec-2010	SL-274-SA5B-SS-0.0-0.5	6168984	N	3550B	8151A	III
17-Dec-2010	SL-274-SA5B-SS-0.0-0.5	6168984	N	3550B	8270C	III
17-Dec-2010	SL-274-SA5B-SS-0.0-0.5	6168984	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SL-274-SA5B-SS-0.0-0.5	6168984	N	Gen Prep	9045M	III
17-Dec-2010	SL-274-SA5B-SS-0.0-0.5	6168984	N	METHOD	300.0	III
17-Dec-2010	SL-274-SA5B-SS-0.0-0.5	6168984	N	METHOD	314.0	III
17-Dec-2010	SL-274-SA5B-SS-0.0-0.5	6168984	N	METHOD	7471A	III
17-Dec-2010	SL-274-SA5B-SS-0.0-0.5DUP	P168984D271549A	DUP	METHOD	300.0	III
17-Dec-2010	SL-274-SA5B-SS-0.0-0.5MS	P168984R271607A	MS	METHOD	300.0	III
17-Dec-2010	SL-209-SA5B-SS-0.0-0.5	6168981	N	3050B	6010B	III
17-Dec-2010	SL-209-SA5B-SS-0.0-0.5	6168981	N	3050B	6020	III
17-Dec-2010	SL-209-SA5B-SS-0.0-0.5	6168981	N	3060A	7199	III
17-Dec-2010	SL-209-SA5B-SS-0.0-0.5	6168981	N	3550B	8081A	III
17-Dec-2010	SL-209-SA5B-SS-0.0-0.5	6168981	N	3550B	8082	III
17-Dec-2010	SL-209-SA5B-SS-0.0-0.5	6168981	N	3550B	8151A	III
17-Dec-2010	SL-209-SA5B-SS-0.0-0.5	6168981	N	3550B	8270C	III
17-Dec-2010	SL-209-SA5B-SS-0.0-0.5	6168981	N	3550B	8270C SIM	III
17-Dec-2010	SL-209-SA5B-SS-0.0-0.5	6168981	N	Gen Prep	9045M	III
17-Dec-2010	SL-209-SA5B-SS-0.0-0.5	6168981	N	METHOD	300.0	III
17-Dec-2010	SL-209-SA5B-SS-0.0-0.5	6168981	N	METHOD	314.0	III
17-Dec-2010	SL-209-SA5B-SS-0.0-0.5	6168981	N	METHOD	6850	III
17-Dec-2010	SL-209-SA5B-SS-0.0-0.5	6168981	N	METHOD	7471A	III
17-Dec-2010	SL-277-SA5B-SS-0.0-0.5	6168993	N	3050B	6010B	III
17-Dec-2010	SL-277-SA5B-SS-0.0-0.5	6168993	N	3050B	6020	III
17-Dec-2010	SL-277-SA5B-SS-0.0-0.5	6168993	N	3060A	7199	III
17-Dec-2010	SL-277-SA5B-SS-0.0-0.5	6168993	N	3550B	8081A	III
17-Dec-2010	SL-277-SA5B-SS-0.0-0.5	6168993	N	3550B	8082	III
17-Dec-2010	SL-277-SA5B-SS-0.0-0.5	6168993	N	3550B	8151A	III
17-Dec-2010	SL-277-SA5B-SS-0.0-0.5	6168993	N	3550B	8270C	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SL-277-SA5B-SS-0.0-0.5	6168993	N	3550B	8270C SIM	III
17-Dec-2010	SL-277-SA5B-SS-0.0-0.5	6168993	N	Gen Prep	9045M	III
17-Dec-2010	SL-277-SA5B-SS-0.0-0.5	6168993	N	METHOD	300.0	III
17-Dec-2010	SL-277-SA5B-SS-0.0-0.5	6168993	N	METHOD	314.0	III
17-Dec-2010	SL-277-SA5B-SS-0.0-0.5	6168993	N	METHOD	7471A	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5	6168987	N	3050B	6010B	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5	6168987	N	3050B	6020	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5	6168987	N	3060A	7199	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5	6168987	N	3550B	8081A	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5	6168987	N	3550B	8082	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5	6168987	N	3550B	8151A	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5	6168987	N	3550B	8270C	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5	6168987	N	3550B	8270C SIM	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5	6168987	N	Gen Prep	9045M	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5	6168987	N	METHOD	300.0	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5	6168987	N	METHOD	314.0	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5	6168987	N	METHOD	7471A	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MS	6168988	MS	3050B	6010B	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MS	6168988	MS	3050B	6020	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MS	6168988	MS	3060A	7199	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MS	6168988	MS	3550B	8081A	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MS	6168988	MS	3550B	8082	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MS	6168988	MS	3550B	8151A	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MS	6168988	MS	3550B	8270C	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MS	6168988	MS	3550B	8270C SIM	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MS	6168988	MS	METHOD	300.0	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MS	6168988	MS	METHOD	314.0	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MS	6168988	MS	METHOD	7471A	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MSD	6168989	MSD	3050B	6010B	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MSD	6168989	MSD	3050B	6020	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MSD	6168989	MSD	3550B	8081A	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MSD	6168989	MSD	3550B	8082	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MSD	6168989	MSD	3550B	8151A	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MSD	6168989	MSD	3550B	8270C	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MSD	6168989	MSD	3550B	8270C SIM	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5MSD	6168989	MSD	METHOD	7471A	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5DUP	6168990	DUP	3050B	6010B	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5DUP	6168990	DUP	3050B	6020	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5DUP	6168990	DUP	3060A	7199	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5DUP	6168990	DUP	Gen Prep	9045M	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5DUP	6168990	DUP	METHOD	300.0	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5DUP	6168990	DUP	METHOD	314.0	III
17-Dec-2010	SL-211-SA5B-SS-0.0-0.5DUP	6168990	DUP	METHOD	7471A	III
17-Dec-2010	SL-278-SA5B-SS-0.0-0.5	6168991	N	3050B	6010B	III
17-Dec-2010	SL-278-SA5B-SS-0.0-0.5	6168991	N	3050B	6020	III
17-Dec-2010	SL-278-SA5B-SS-0.0-0.5	6168991	N	3060A	7199	III
17-Dec-2010	SL-278-SA5B-SS-0.0-0.5	6168991	N	3550B	8081A	III
17-Dec-2010	SL-278-SA5B-SS-0.0-0.5	6168991	N	3550B	8082	III
17-Dec-2010	SL-278-SA5B-SS-0.0-0.5	6168991	N	3550B	8151A	III
17-Dec-2010	SL-278-SA5B-SS-0.0-0.5	6168991	N	3550B	8270C	III
17-Dec-2010	SL-278-SA5B-SS-0.0-0.5	6168991	N	3550B	8270C SIM	III
17-Dec-2010	SL-278-SA5B-SS-0.0-0.5	6168991	N	Gen Prep	9045M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SL-278-SA5B-SS-0.0-0.5	6168991	N	METHOD	300.0	III
17-Dec-2010	SL-278-SA5B-SS-0.0-0.5	6168991	N	METHOD	314.0	III
17-Dec-2010	SL-278-SA5B-SS-0.0-0.5	6168991	N	METHOD	7471A	III
17-Dec-2010	SL-273-SA5B-SS-0.0-0.5	6168994	N	3050B	6010B	III
17-Dec-2010	SL-273-SA5B-SS-0.0-0.5	6168994	N	3050B	6020	III
17-Dec-2010	SL-273-SA5B-SS-0.0-0.5	6168994	N	3060A	7199	III
17-Dec-2010	SL-273-SA5B-SS-0.0-0.5	6168994	N	3550B	8081A	III
17-Dec-2010	SL-273-SA5B-SS-0.0-0.5	6168994	N	3550B	8082	III
17-Dec-2010	SL-273-SA5B-SS-0.0-0.5	6168994	N	3550B	8151A	III
17-Dec-2010	SL-273-SA5B-SS-0.0-0.5	6168994	N	3550B	8270C	III
17-Dec-2010	SL-273-SA5B-SS-0.0-0.5	6168994	N	3550B	8270C SIM	III
17-Dec-2010	SL-273-SA5B-SS-0.0-0.5	6168994	N	Gen Prep	9045M	III
17-Dec-2010	SL-273-SA5B-SS-0.0-0.5	6168994	N	METHOD	300.0	III
17-Dec-2010	SL-273-SA5B-SS-0.0-0.5	6168994	N	METHOD	314.0	III
17-Dec-2010	SL-273-SA5B-SS-0.0-0.5	6168994	N	METHOD	6850	III
17-Dec-2010	SL-273-SA5B-SS-0.0-0.5	6168994	N	METHOD	7471A	III
17-Dec-2010	SL-279-SA5B-SS-0.0-0.5	6168992	N	3050B	6010B	III
17-Dec-2010	SL-279-SA5B-SS-0.0-0.5	6168992	N	3050B	6020	III
17-Dec-2010	SL-279-SA5B-SS-0.0-0.5	6168992	N	3060A	7199	III
17-Dec-2010	SL-279-SA5B-SS-0.0-0.5	6168992	N	3550B	8081A	III
17-Dec-2010	SL-279-SA5B-SS-0.0-0.5	6168992	N	3550B	8082	III
17-Dec-2010	SL-279-SA5B-SS-0.0-0.5	6168992	N	3550B	8151A	III
17-Dec-2010	SL-279-SA5B-SS-0.0-0.5	6168992	N	3550B	8270C	III
17-Dec-2010	SL-279-SA5B-SS-0.0-0.5	6168992	N	3550B	8270C SIM	III
17-Dec-2010	SL-279-SA5B-SS-0.0-0.5	6168992	N	Gen Prep	9045M	III
17-Dec-2010	SL-279-SA5B-SS-0.0-0.5	6168992	N	METHOD	300.0	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SL-279-SA5B-SS-0.0-0.5	6168992	N	METHOD	314.0	III
17-Dec-2010	SL-279-SA5B-SS-0.0-0.5	6168992	N	METHOD	7471A	III
17-Dec-2010	SL-272-SA5B-SS-0.0-0.5	6168995	N	3050B	6010B	III
17-Dec-2010	SL-272-SA5B-SS-0.0-0.5	6168995	N	3050B	6020	III
17-Dec-2010	SL-272-SA5B-SS-0.0-0.5	6168995	N	3060A	7199	III
17-Dec-2010	SL-272-SA5B-SS-0.0-0.5	6168995	N	3550B	8081A	III
17-Dec-2010	SL-272-SA5B-SS-0.0-0.5	6168995	N	3550B	8082	III
17-Dec-2010	SL-272-SA5B-SS-0.0-0.5	6168995	N	3550B	8151A	III
17-Dec-2010	SL-272-SA5B-SS-0.0-0.5	6168995	N	3550B	8270C	III
17-Dec-2010	SL-272-SA5B-SS-0.0-0.5	6168995	N	3550B	8270C SIM	III
17-Dec-2010	SL-272-SA5B-SS-0.0-0.5	6168995	N	Gen Prep	9045M	III
17-Dec-2010	SL-272-SA5B-SS-0.0-0.5	6168995	N	METHOD	300.0	III
17-Dec-2010	SL-272-SA5B-SS-0.0-0.5	6168995	N	METHOD	314.0	III
17-Dec-2010	SL-272-SA5B-SS-0.0-0.5	6168995	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-160-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.1		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-161-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.96	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-162-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.0		0.96	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-166-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-206-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-207-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-208-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.1		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-209-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.86	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

7/5/2011 10:09:27 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-210-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.84	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-211-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:02:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.2		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-272-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.84	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-273-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.2		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-274-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.7		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-275-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-276-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-277-SA5B-SS-0.0-0.5

Collected: 12/17/2010 1:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.85	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

7/5/2011 10:09:27 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-278-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:11:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-279-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.0		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-160-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.59	J	0.960	MDL	5.39	PQL	mg/Kg	J	Z
TIN	2.83	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.37	J	0.906	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-161-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	91.5	J	42.6	MDL	114	PQL	mg/Kg	J	Z
TIN	3.23	J	1.14	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	1.35	J	0.959	MDL	5.71	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.78	J	1.17	MDL	11.7	PQL	mg/Kg	U	B
Zirconium	1.85	J	0.979	MDL	5.83	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.80	J	0.928	MDL	5.21	PQL	mg/Kg	J	Z
SODIUM	84.6	J	38.9	MDL	104	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-166-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.63	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.08	J	0.876	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-206-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.94	J	0.922	MDL	5.18	PQL	mg/Kg	J	Z
SODIUM	76.5	J	38.6	MDL	104	PQL	mg/Kg	J	Z
TIN	2.36	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.11	J	0.870	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-207-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	92.7	J	38.4	MDL	103	PQL	mg/Kg	J	Z
TIN	2.63	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.26	J	0.866	MDL	5.15	PQL	mg/Kg	J	Z

Sample ID: SL-208-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	79.1	J	38.0	MDL	102	PQL	mg/Kg	J	Z
TIN	2.40	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.15	J	0.856	MDL	5.09	PQL	mg/Kg	J	Z

Sample ID: SL-209-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	78.4	J	39.1	MDL	105	PQL	mg/Kg	J	Z
TIN	2.57	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.22	J	0.881	MDL	5.24	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-210-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	82.7	J	38.5	MDL	103	PQL	mg/Kg	J	Z
TIN	2.63	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.66	J	0.868	MDL	5.17	PQL	mg/Kg	J	Z

Sample ID: SL-211-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:02:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.21	J	0.995	MDL	5.59	PQL	mg/Kg	J	Z
TIN	3.07	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.37	J	0.939	MDL	5.59	PQL	mg/Kg	J	Z

Sample ID: SL-272-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	71.1	J	38.9	MDL	104	PQL	mg/Kg	J	Z
TIN	2.16	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.12	J	0.875	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-273-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.94	J	0.923	MDL	5.19	PQL	mg/Kg	J	Z
TIN	3.06	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.49	J	0.871	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: SL-274-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.85	J	0.940	MDL	5.28	PQL	mg/Kg	J	Z
TIN	2.89	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.62	J	0.887	MDL	5.28	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-275-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	83.4	J	38.6	MDL	104	PQL	mg/Kg	J	Z
TIN	2.40	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.36	J	0.870	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-276-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	79.8	J	38.1	MDL	102	PQL	mg/Kg	J	Z
TIN	2.29	J	1.02	MDL	10.2	PQL	mg/Kg	U	B

Sample ID: SL-277-SA5B-SS-0.0-0.5

Collected: 12/17/2010 1:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	83.8	J	38.7	MDL	104	PQL	mg/Kg	J	Z
TIN	2.22	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.30	J	0.871	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: SL-278-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:11:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.07	J	0.896	MDL	5.03	PQL	mg/Kg	J	Z
SODIUM	84.1	J	37.6	MDL	101	PQL	mg/Kg	J	Z
TIN	2.27	J	1.01	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-279-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	79.3	J	39.6	MDL	106	PQL	mg/Kg	J	Z
TIN	2.28	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-160-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:22:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	44.7		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, A

Sample ID: SL-160-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:22:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0423	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-160-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:22:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0635	U	0.0635	MDL	0.212	PQL	mg/Kg	UJ	Q
BERYLLIUM	0.768		0.0169	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.424		0.0381	MDL	0.106	PQL	mg/Kg	J	Q, E
CHROMIUM	41.0		0.127	MDL	0.423	PQL	mg/Kg	J	Q, A
COBALT	7.28		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	20.2		0.0698	MDL	0.423	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	29.5		0.106	MDL	0.423	PQL	mg/Kg	J	Q, A
SILVER	8.66		0.0127	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-161-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:04:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	27.7		0.0264	MDL	0.120	PQL	mg/Kg	J	Q, A

Sample ID: SL-161-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:04:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.208	J	0.0480	MDL	0.480	PQL	mg/Kg	J	Z

Sample ID: SL-161-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:04:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0820	J	0.0719	MDL	0.240	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.538		0.0192	MDL	0.120	PQL	mg/Kg	J	Q
CADMIUM	1.12		0.0432	MDL	0.120	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-161-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:04:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	36.5		0.144	MDL	0.480	PQL	mg/Kg	J	Q, A
COBALT	5.45		0.0240	MDL	0.120	PQL	mg/Kg	J	A
COPPER	16.7		0.0791	MDL	0.480	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	16.4		0.120	MDL	0.480	PQL	mg/Kg	J	Q, A
SILVER	63.8		0.0144	MDL	0.120	PQL	mg/Kg	J	Q

Sample ID: SL-162-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:42:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	40.7		0.0252	MDL	0.114	PQL	mg/Kg	J	Q, A

Sample ID: SL-162-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:42:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.271	J	0.0457	MDL	0.457	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:42:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.121	J	0.0686	MDL	0.229	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.790		0.0183	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	1.62		0.0412	MDL	0.114	PQL	mg/Kg	J	Q, E
CHROMIUM	44.9		0.137	MDL	0.457	PQL	mg/Kg	J	Q, A
COBALT	7.30		0.0229	MDL	0.114	PQL	mg/Kg	J	A
COPPER	40.3		0.0755	MDL	0.457	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	26.5		0.114	MDL	0.457	PQL	mg/Kg	J	Q, A
SILVER	38.1		0.0137	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-166-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:08:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	28.9		0.0221	MDL	0.100	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-166-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:08:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.116	J	0.0401	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:08:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0679	J	0.0602	MDL	0.201	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.513		0.0160	MDL	0.100	PQL	mg/Kg	J	Q
CADMIUM	0.231		0.0361	MDL	0.100	PQL	mg/Kg	J	Q, E
CHROMIUM	20.0		0.120	MDL	0.401	PQL	mg/Kg	J	Q, A
COBALT	5.02		0.0201	MDL	0.100	PQL	mg/Kg	J	A
COPPER	12.4		0.0662	MDL	0.401	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	16.5		0.100	MDL	0.401	PQL	mg/Kg	J	Q, A
SILVER	2.55		0.0120	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-206-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:10:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	28.4		0.0223	MDL	0.102	PQL	mg/Kg	J	Q, A

Sample ID: SL-206-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:10:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.116	J	0.0406	MDL	0.406	PQL	mg/Kg	J	Z

Sample ID: SL-206-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0609	U	0.0609	MDL	0.203	PQL	mg/Kg	UJ	Q
BERYLLIUM	0.542		0.0162	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.145		0.0366	MDL	0.102	PQL	mg/Kg	J	Q, E
CHROMIUM	19.0		0.122	MDL	0.406	PQL	mg/Kg	J	Q, A
COBALT	4.76		0.0203	MDL	0.102	PQL	mg/Kg	J	A
COPPER	8.05		0.0670	MDL	0.406	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	10.7		0.102	MDL	0.406	PQL	mg/Kg	J	Q, A
SILVER	0.0501	J	0.0122	MDL	0.102	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-207-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:10:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	27.7		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, A

Sample ID: SL-207-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:10:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0420	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-207-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0631	MDL	0.210	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.551		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.259		0.0378	MDL	0.105	PQL	mg/Kg	J	Q, E
CHROMIUM	21.7		0.126	MDL	0.420	PQL	mg/Kg	J	Q, A
COBALT	4.84		0.0210	MDL	0.105	PQL	mg/Kg	J	A
COPPER	10.3		0.0694	MDL	0.420	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	13.1		0.105	MDL	0.420	PQL	mg/Kg	J	Q, A
SILVER	5.89		0.0126	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-208-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:53:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	30.1		0.0229	MDL	0.104	PQL	mg/Kg	J	Q, A

Sample ID: SL-208-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:53:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.159	J	0.0416	MDL	0.416	PQL	mg/Kg	J	Z

Sample ID: SL-208-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:53:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0665	J	0.0623	MDL	0.208	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.586		0.0166	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.130		0.0374	MDL	0.104	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-208-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:53:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	18.9		0.125	MDL	0.416	PQL	mg/Kg	J	Q, A
COBALT	4.86		0.0208	MDL	0.104	PQL	mg/Kg	J	A
COPPER	8.13		0.0686	MDL	0.416	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	10.7		0.104	MDL	0.416	PQL	mg/Kg	J	Q, A
SILVER	0.140		0.0125	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-209-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	26.8		0.0226	MDL	0.103	PQL	mg/Kg	J	Q, A

Sample ID: SL-209-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0411	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-209-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0718	J	0.0617	MDL	0.206	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.515		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.386		0.0370	MDL	0.103	PQL	mg/Kg	J	Q, E
CHROMIUM	19.6		0.123	MDL	0.411	PQL	mg/Kg	J	Q, A
COBALT	4.79		0.0206	MDL	0.103	PQL	mg/Kg	J	A
COPPER	12.0		0.0679	MDL	0.411	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	11.5		0.103	MDL	0.411	PQL	mg/Kg	J	Q, A
SILVER	6.24		0.0123	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-210-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	28.1		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-210-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.154	J	0.0405	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SL-210-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0820	J	0.0608	MDL	0.203	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.556		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.398		0.0365	MDL	0.101	PQL	mg/Kg	J	Q, E
CHROMIUM	23.1		0.122	MDL	0.405	PQL	mg/Kg	J	Q, A
COBALT	5.60		0.0203	MDL	0.101	PQL	mg/Kg	J	A
COPPER	11.2		0.0669	MDL	0.405	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	14.3		0.101	MDL	0.405	PQL	mg/Kg	J	Q, A
SILVER	6.76		0.0122	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-211-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:02:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	42.1		0.0246	MDL	0.112	PQL	mg/Kg	J	Q, A

Sample ID: SL-211-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:02:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.319	J	0.0447	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-211-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:02:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.218	J	0.0670	MDL	0.223	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.911		0.0179	MDL	0.112	PQL	mg/Kg	J	Q
CADMIUM	1.67		0.0402	MDL	0.112	PQL	mg/Kg	J	Q, E
CHROMIUM	43.9		0.134	MDL	0.447	PQL	mg/Kg	J	Q, A
COBALT	7.38		0.0223	MDL	0.112	PQL	mg/Kg	J	A
COPPER	36.7		0.0738	MDL	0.447	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	20.2		0.112	MDL	0.447	PQL	mg/Kg	J	Q, A
SILVER	44.8		0.0134	MDL	0.112	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-272-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:40:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	25.9		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, A

Sample ID: SL-272-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:40:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.111	J	0.0413	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-272-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0813	J	0.0619	MDL	0.206	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.492		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.233		0.0372	MDL	0.103	PQL	mg/Kg	J	Q, E
CHROMIUM	17.4		0.124	MDL	0.413	PQL	mg/Kg	J	Q, A
COBALT	4.88		0.0206	MDL	0.103	PQL	mg/Kg	J	A
COPPER	10.6		0.0681	MDL	0.413	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	11.6		0.103	MDL	0.413	PQL	mg/Kg	J	Q, A
SILVER	0.0643	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-273-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:20:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	31.8		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, A

Sample ID: SL-273-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:20:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.242	J	0.0423	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-273-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:20:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.134	J	0.0635	MDL	0.212	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.646		0.0169	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.956		0.0381	MDL	0.106	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-273-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:20:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	28.6		0.127	MDL	0.423	PQL	mg/Kg	J	Q, A
COBALT	6.33		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	21.6		0.0698	MDL	0.423	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	16.3		0.106	MDL	0.423	PQL	mg/Kg	J	Q, A
SILVER	20.0		0.0127	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-274-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	35.3		0.0235	MDL	0.107	PQL	mg/Kg	J	Q, A

Sample ID: SL-274-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.197	J	0.0427	MDL	0.427	PQL	mg/Kg	J	Z

Sample ID: SL-274-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.105	J	0.0640	MDL	0.213	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.680		0.0171	MDL	0.107	PQL	mg/Kg	J	Q
CADMIUM	0.673		0.0384	MDL	0.107	PQL	mg/Kg	J	Q, E
CHROMIUM	34.8		0.128	MDL	0.427	PQL	mg/Kg	J	Q, A
COBALT	6.60		0.0213	MDL	0.107	PQL	mg/Kg	J	A
COPPER	19.0		0.0704	MDL	0.427	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	22.0		0.107	MDL	0.427	PQL	mg/Kg	J	Q, A
SILVER	19.8		0.0128	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-275-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:45:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	29.4		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-275-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:45:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0419	MDL	0.419	PQL	mg/Kg	J	Z

Sample ID: SL-275-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0628	U	0.0628	MDL	0.209	PQL	mg/Kg	UJ	Q
BERYLLIUM	0.629		0.0167	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.293		0.0377	MDL	0.105	PQL	mg/Kg	J	Q, E
CHROMIUM	19.9		0.126	MDL	0.419	PQL	mg/Kg	J	Q, A
COBALT	5.67		0.0209	MDL	0.105	PQL	mg/Kg	J	A
COPPER	10.8		0.0691	MDL	0.419	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	13.3		0.105	MDL	0.419	PQL	mg/Kg	J	Q, A
SILVER	0.0566	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z, Q

Sample ID: SL-276-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:30:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	26.7		0.0220	MDL	0.100	PQL	mg/Kg	J	Q, A

Sample ID: SL-276-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:30:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.125	J	0.0401	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-276-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:30:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0784	J	0.0601	MDL	0.200	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.538		0.0160	MDL	0.100	PQL	mg/Kg	J	Q
CADMIUM	0.254		0.0361	MDL	0.100	PQL	mg/Kg	J	Q, E
CHROMIUM	17.1		0.120	MDL	0.401	PQL	mg/Kg	J	Q, A
COBALT	4.70		0.0200	MDL	0.100	PQL	mg/Kg	J	A
COPPER	9.54		0.0661	MDL	0.401	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	11.0		0.100	MDL	0.401	PQL	mg/Kg	J	Q, A
SILVER	0.0547	J	0.0120	MDL	0.100	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-277-SA5B-SS-0.0-0.5

Collected: 12/17/2010 1:55:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	26.7		0.0224	MDL	0.102	PQL	mg/Kg	J	Q, A

Sample ID: SL-277-SA5B-SS-0.0-0.5

Collected: 12/17/2010 1:55:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0407	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-277-SA5B-SS-0.0-0.5

Collected: 12/17/2010 1:55:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0828	J	0.0611	MDL	0.204	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.516		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.214		0.0366	MDL	0.102	PQL	mg/Kg	J	Q, E
CHROMIUM	17.1		0.122	MDL	0.407	PQL	mg/Kg	J	Q, A
COBALT	4.84		0.0204	MDL	0.102	PQL	mg/Kg	J	A
COPPER	9.57		0.0672	MDL	0.407	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	11.4		0.102	MDL	0.407	PQL	mg/Kg	J	Q, A
SILVER	0.0757	J	0.0122	MDL	0.102	PQL	mg/Kg	J	Z, Q

Sample ID: SL-278-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:11:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	27.0		0.0224	MDL	0.102	PQL	mg/Kg	J	Q, A

Sample ID: SL-278-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:11:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.124	J	0.0407	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-278-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:11:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0969	J	0.0610	MDL	0.203	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.522		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.189		0.0366	MDL	0.102	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-278-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:11:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	16.1		0.122	MDL	0.407	PQL	mg/Kg	J	Q, A
COBALT	4.72		0.0203	MDL	0.102	PQL	mg/Kg	J	A
COPPER	8.01		0.0671	MDL	0.407	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	9.80		0.102	MDL	0.407	PQL	mg/Kg	J	Q, A
SILVER	0.0721	J	0.0122	MDL	0.102	PQL	mg/Kg	J	Z, Q

Sample ID: SL-279-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:28:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	25.9		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, A

Sample ID: SL-279-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:28:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:28:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0637	U	0.0637	MDL	0.212	PQL	mg/Kg	UJ	Q
BERYLLIUM	0.495		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.223		0.0382	MDL	0.106	PQL	mg/Kg	J	Q, E
CHROMIUM	16.8		0.127	MDL	0.424	PQL	mg/Kg	J	Q, A
COBALT	4.94		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	8.71		0.0700	MDL	0.424	PQL	mg/Kg	J	Q, Q, E, A
NICKEL	10.8		0.106	MDL	0.424	PQL	mg/Kg	J	Q, A
SILVER	0.105	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-160-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.77	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-162-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.76	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-206-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-207-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.97	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-208-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.78	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-209-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.45	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-210-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.38	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-211-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:02:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.87	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-272-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-274-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.71	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-275-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.39	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-276-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.30	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-278-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:11:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-160-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0279	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-162-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0815	J	0.0034	MDL	0.119	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0100	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-207-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0151	J	0.0029	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-208-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0033	J	0.0028	MDL	0.0991	PQL	mg/Kg	J	Z

Sample ID: SL-209-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0253	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-210-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0284	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-211-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:02:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0687	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-273-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0735	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-274-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0567	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-275-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0042	J	0.0029	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-276-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0034	J	0.0030	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-277-SA5B-SS-0.0-0.5

Collected: 12/17/2010 1:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0037	J	0.0030	MDL	0.106	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-160-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.048	J	0.038	MDL	0.18	PQL	ug/Kg	J	Z
DELTA-BHC	0.14	J	0.040	MDL	0.18	PQL	ug/Kg	J	Z
DIELDRIN	0.073	U	0.073	MDL	0.38	PQL	ug/Kg	UJ	L
gamma-BHC (Lindane)	0.16	J	0.038	MDL	0.18	PQL	ug/Kg	J	Z

Sample ID: SL-161-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	1.3	U	1.3	MDL	1.3	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA
Method:	8081A
Matrix:	SO

Sample ID: SL-162-SA5B-SS-0.0-0.5			Collected: 12/17/2010 9:42:00		Analysis Type: RES-BASE/NEUTRAL			Dilution: 10	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	7.2	U	7.2	MDL	7.2	PQL	ug/Kg	UJ	L

Sample ID: SL-166-SA5B-SS-0.0-0.5			Collected: 12/17/2010 11:08:00		Analysis Type: RES-BASE/NEUTRAL			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	0.17	U	0.17	MDL	0.35	PQL	ug/Kg	UJ	L

Sample ID: SL-206-SA5B-SS-0.0-0.5			Collected: 12/17/2010 10:10:00		Analysis Type: RES-BASE/NEUTRAL			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	L

Sample ID: SL-207-SA5B-SS-0.0-0.5			Collected: 12/17/2010 11:10:00		Analysis Type: RES-BASE/NEUTRAL			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	0.12	U	0.12	MDL	0.36	PQL	ug/Kg	UJ	L

Sample ID: SL-208-SA5B-SS-0.0-0.5			Collected: 12/17/2010 10:53:00		Analysis Type: RES-BASE/NEUTRAL			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	0.085	U	0.085	MDL	0.36	PQL	ug/Kg	UJ	L

Sample ID: SL-209-SA5B-SS-0.0-0.5			Collected: 12/17/2010 11:42:00		Analysis Type: RES-BASE/NEUTRAL			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	0.33	U	0.33	MDL	0.36	PQL	ug/Kg	UJ	L

Sample ID: SL-210-SA5B-SS-0.0-0.5			Collected: 12/17/2010 11:28:00		Analysis Type: RES-BASE/NEUTRAL			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	0.33	U	0.33	MDL	0.36	PQL	ug/Kg	UJ	L

Sample ID: SL-211-SA5B-SS-0.0-0.5			Collected: 12/17/2010 2:02:00		Analysis Type: DL-BASE/NEUTRAL			Dilution: 10	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	7.6	U	7.6	MDL	7.6	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-211-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:02:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.088	J	0.038	MDL	0.19	PQL	ug/Kg	J	Z

Sample ID: SL-272-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.051	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z
DELTA-BHC	0.058	J	0.038	MDL	0.17	PQL	ug/Kg	J	Z
DIELDRIN	0.14	U	0.14	MDL	0.36	PQL	ug/Kg	UJ	L
gamma-BHC (Lindane)	0.053	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-273-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	0.63	U	0.63	MDL	0.63	PQL	ug/Kg	UJ	L

Sample ID: SL-274-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	0.84	U	0.84	MDL	0.84	PQL	ug/Kg	UJ	L

Sample ID: SL-275-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	L
HEPTACHLOR EPOXIDE	0.066	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z

Sample ID: SL-276-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	0.20	U	0.20	MDL	0.35	PQL	ug/Kg	UJ	L

Sample ID: SL-277-SA5B-SS-0.0-0.5

Collected: 12/17/2010 1:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-278-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:11:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.096	J	0.063	MDL	0.17	PQL	ug/Kg	J	Z
DIELDRIN	0.22	U	0.22	MDL	0.36	PQL	ug/Kg	UJ	L
gamma-BHC (Lindane)	0.045	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-279-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	0.16	U	0.16	MDL	0.36	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-160-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	8.0		1.1	MDL	3.7	PQL	ug/Kg	J	L

Sample ID: SL-161-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:04:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	6.0	U	6.0	MDL	20	PQL	ug/Kg	UJ	L
Aroclor 5442	6.0	U	6.0	MDL	20	PQL	ug/Kg	UJ	L
Aroclor 5460	95		6.0	MDL	20	PQL	ug/Kg	J	L

Sample ID: SL-162-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:42:00

Analysis Type: RES

Dilution: 250

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	300	U	300	MDL	990	PQL	ug/Kg	UJ	L
Aroclor 5442	300	U	300	MDL	990	PQL	ug/Kg	UJ	L
Aroclor 5460	300	U	300	MDL	990	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-166-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	L
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	L
Aroclor 5460	7.9		1.0	MDL	3.4	PQL	ug/Kg	J	L

Sample ID: SL-206-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SL-207-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	5.9		1.1	MDL	3.5	PQL	ug/Kg	J	L

Sample ID: SL-208-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:53:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.67	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SL-209-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	30		0.71	MDL	3.6	PQL	ug/Kg	J	S
AROCLOR 1260	25		0.71	MDL	3.6	PQL	ug/Kg	J	S
Aroclor 5432	2.1	U	2.1	MDL	7.1	PQL	ug/Kg	UJ	L
Aroclor 5442	2.1	U	2.1	MDL	7.1	PQL	ug/Kg	UJ	L
Aroclor 5460	35		2.1	MDL	7.1	PQL	ug/Kg	J	S, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-210-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	130		0.70	MDL	3.6	PQL	ug/Kg	J	S
AROCLOR 1260	30		0.70	MDL	3.6	PQL	ug/Kg	J	S
Aroclor 5432	2.1	U	2.1	MDL	7.0	PQL	ug/Kg	UJ	L
Aroclor 5442	2.1	U	2.1	MDL	7.0	PQL	ug/Kg	UJ	L
Aroclor 5460	36		2.1	MDL	7.0	PQL	ug/Kg	J	S, L

Sample ID: SL-211-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:02:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	5.6	U	5.6	MDL	19	PQL	ug/Kg	UJ	L
Aroclor 5442	5.6	U	5.6	MDL	19	PQL	ug/Kg	UJ	L
Aroclor 5460	60		5.6	MDL	19	PQL	ug/Kg	J	L

Sample ID: SL-272-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.7	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	1.2	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	4.0		1.1	MDL	3.5	PQL	ug/Kg	J	L

Sample ID: SL-273-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:20:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	5.3	U	5.3	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.3	U	5.3	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	61		5.3	MDL	18	PQL	ug/Kg	J	L

Sample ID: SL-274-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	11	U	11	MDL	36	PQL	ug/Kg	UJ	L
Aroclor 5442	11	U	11	MDL	36	PQL	ug/Kg	UJ	L
Aroclor 5460	55		11	MDL	36	PQL	ug/Kg	J	L

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-275-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.6	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, S
AROCLOR 1260	1.6	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, S
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	3.5		1.1	MDL	3.5	PQL	ug/Kg	J	S, L

Sample ID: SL-276-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	L
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	L
Aroclor 5460	4.5		1.0	MDL	3.4	PQL	ug/Kg	J	L

Sample ID: SL-277-SA5B-SS-0.0-0.5

Collected: 12/17/2010 1:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.65	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SL-278-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:11:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	8.1		0.35	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1260	4.4		0.35	MDL	1.8	PQL	ug/Kg	J	S
Aroclor 5432	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	16		1.0	MDL	3.5	PQL	ug/Kg	J	S, L

Sample ID: SL-279-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.7	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, S
AROCLOR 1260	9.1		0.35	MDL	1.8	PQL	ug/Kg	J	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-279-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	4.0		1.1	MDL	3.5	PQL	ug/Kg	J	S, L

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-160-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-161-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.96	U	0.96	MDL	2.9	PQL	ug/Kg	R	L

Sample ID: SL-162-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:42:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.96	U	0.96	MDL	2.9	PQL	ug/Kg	R	L

Sample ID: SL-166-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:08:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-206-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-207-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.68	J	0.42	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-208-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	22		0.65	MDL	1.8	PQL	ug/Kg	J	S
DICAMBA	0.75	J	0.42	MDL	1.3	PQL	ug/Kg	J	Z, S
DINOSEB	1.2	J	0.84	MDL	2.5	PQL	ug/Kg	J	Z, L, S
MCPA	700		80	MDL	260	PQL	ug/Kg	J	S

Sample ID: SL-209-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-210-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPP	210	J	79	MDL	260	PQL	ug/Kg	J	Z

Sample ID: SL-211-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:02:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	14		0.70	MDL	1.9	PQL	ug/Kg	J	Q, Q
DALAPON	5.0	U	5.0	MDL	10	PQL	ug/Kg	R	Q
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-272-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8151A	Matrix:	SO

Sample ID: SL-273-SA5B-SS-0.0-0.5 Collected: 12/17/2010 2:20:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-274-SA5B-SS-0.0-0.5 Collected: 12/17/2010 11:28:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.47	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-275-SA5B-SS-0.0-0.5 Collected: 12/17/2010 9:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-276-SA5B-SS-0.0-0.5 Collected: 12/17/2010 9:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-277-SA5B-SS-0.0-0.5 Collected: 12/17/2010 1:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-278-SA5B-SS-0.0-0.5 Collected: 12/17/2010 2:11:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.76	J	0.42	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-279-SA5B-SS-0.0-0.5 Collected: 12/17/2010 2:28:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.60	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z
DICHLOROPROP	5.6		0.86	MDL	1.8	PQL	ug/Kg	J	L
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L
MCPP	170	J	80	MDL	270	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8151A	Matrix:	SO

Method Category:	SVOA		
Method:	8270C	Matrix:	SO

Sample ID: SL-160-SA5B-SS-0.0-0.5 Collected: 12/17/2010 11:22:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L

Sample ID: SL-161-SA5B-SS-0.0-0.5 Collected: 12/17/2010 10:04:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	120	U	120	MDL	400	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	29	J	20	MDL	400	PQL	ug/Kg	J	Z
PYRENE	23	J	20	MDL	200	PQL	ug/Kg	J	Z

Sample ID: SL-162-SA5B-SS-0.0-0.5 Collected: 12/17/2010 9:42:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	120	U	120	MDL	400	PQL	ug/Kg	UJ	L

Sample ID: SL-166-SA5B-SS-0.0-0.5 Collected: 12/17/2010 11:08:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	100	U	100	MDL	350	PQL	ug/Kg	UJ	L

Sample ID: SL-206-SA5B-SS-0.0-0.5 Collected: 12/17/2010 10:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	100	U	100	MDL	350	PQL	ug/Kg	UJ	L

Sample ID: SL-207-SA5B-SS-0.0-0.5 Collected: 12/17/2010 11:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	37	J	18	MDL	350	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-208-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:53:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	100	U	100	MDL	350	PQL	ug/Kg	UJ	L
FLUORANTHENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	31	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-209-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

Sample ID: SL-210-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L

Sample ID: SL-211-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:02:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	750	U	750	MDL	2300	PQL	ug/Kg	R	Q
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	380	PQL	ug/Kg	UJ	L
BENZIDINE	1300	U	1300	MDL	3800	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	31	J	19	MDL	380	PQL	ug/Kg	J	Z

Sample ID: SL-272-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L

Sample ID: SL-273-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

Sample ID: SL-274-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-275-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

Sample ID: SL-276-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	100	U	100	MDL	350	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	17	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-277-SA5B-SS-0.0-0.5

Collected: 12/17/2010 1:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L

Sample ID: SL-278-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:11:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	100	U	100	MDL	350	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	41	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	31	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	43	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	38	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	74	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	45	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	75	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-279-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-160-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.38	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.0	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.7	J	6.7	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	0.80	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-161-SA5B-SS-0.0-0.5

Collected: 12/17/2010 10:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.6	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	1.1	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
Butylbenzylphthalate	14	J	7.2	MDL	22	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.1	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-162-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.93	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.8	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.74	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.9	J	7.2	MDL	22	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.1	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	1.7	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-166-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:08:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.38	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	1.2	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.6	J	6.3	MDL	19	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.1	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	1.0	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8270C SIM	Matrix:	SO

Sample ID: SL-206-SA5B-SS-0.0-0.5 Collected: 12/17/2010 10:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	6.8	J	6.3	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	13	J	6.3	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-207-SA5B-SS-0.0-0.5 Collected: 12/17/2010 11:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.89	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	0.63	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-208-SA5B-SS-0.0-0.5 Collected: 12/17/2010 10:53:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.97	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.5	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.81	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	16	J	6.3	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	13	J	6.3	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.95	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.80	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-209-SA5B-SS-0.0-0.5 Collected: 12/17/2010 11:42:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.58	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	11	J	6.4	MDL	19	PQL	ug/Kg	J	Z
NAPHTHALENE	0.87	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-210-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.61	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	6.5	J	6.3	MDL	19	PQL	ug/Kg	J	Z
NAPHTHALENE	0.83	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-211-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:02:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.56	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.6	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.1	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	1.5	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-272-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.41	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.2	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.2	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.91	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.2	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	6.3	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	13	J	6.3	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.83	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.98	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-273-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.41	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	1.3	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	13	J	6.4	MDL	19	PQL	ug/Kg	J	Z
NAPHTHALENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-274-SA5B-SS-0.0-0.5

Collected: 12/17/2010 11:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.95	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.8	J	6.5	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	0.84	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-275-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.44	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.91	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	13	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.81	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-276-SA5B-SS-0.0-0.5

Collected: 12/17/2010 9:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.6	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.48	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.77	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-octylphthalate	14	J	6.3	MDL	19	PQL	ug/Kg	J	Z
NAPHTHALENE	1.6	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-277-SA5B-SS-0.0-0.5

Collected: 12/17/2010 1:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	6.7	J	6.3	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	13	J	6.3	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-277-SA5B-SS-0.0-0.5

Collected: 12/17/2010 1:55:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.93	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-278-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:11:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.0	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.2	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.3	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	13	J	6.3	MDL	19	PQL	ug/Kg	J	Z
NAPHTHALENE	1.0	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-279-SA5B-SS-0.0-0.5

Collected: 12/17/2010 2:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.89	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	0.41	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	14	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.85	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE044

Method Blank Outlier Report

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35508EB222210	12/30/2010 10:10:00 PM	PHOSPHORUS TIN	1.89 mg/Kg 1.29 mg/Kg	SL-160-SA5B-SS-0.0-0.5 SL-161-SA5B-SS-0.0-0.5 SL-162-SA5B-SS-0.0-0.5 SL-166-SA5B-SS-0.0-0.5 SL-206-SA5B-SS-0.0-0.5 SL-207-SA5B-SS-0.0-0.5 SL-208-SA5B-SS-0.0-0.5 SL-209-SA5B-SS-0.0-0.5 SL-210-SA5B-SS-0.0-0.5 SL-211-SA5B-SS-0.0-0.5 SL-272-SA5B-SS-0.0-0.5 SL-273-SA5B-SS-0.0-0.5 SL-274-SA5B-SS-0.0-0.5 SL-275-SA5B-SS-0.0-0.5 SL-276-SA5B-SS-0.0-0.5 SL-277-SA5B-SS-0.0-0.5 SL-278-SA5B-SS-0.0-0.5 SL-279-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-160-SA5B-SS-0.0-0.5(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SL-161-SA5B-SS-0.0-0.5(RES)	TIN	3.23 mg/Kg	3.23U mg/Kg
SL-162-SA5B-SS-0.0-0.5(RES)	TIN	3.78 mg/Kg	3.78U mg/Kg
SL-166-SA5B-SS-0.0-0.5(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-206-SA5B-SS-0.0-0.5(RES)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-207-SA5B-SS-0.0-0.5(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-208-SA5B-SS-0.0-0.5(RES)	TIN	2.40 mg/Kg	2.40U mg/Kg
SL-209-SA5B-SS-0.0-0.5(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-210-SA5B-SS-0.0-0.5(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-211-SA5B-SS-0.0-0.5(RES)	TIN	3.07 mg/Kg	3.07U mg/Kg
SL-272-SA5B-SS-0.0-0.5(RES)	TIN	2.16 mg/Kg	2.16U mg/Kg
SL-273-SA5B-SS-0.0-0.5(RES)	TIN	3.08 mg/Kg	3.08U mg/Kg
SL-274-SA5B-SS-0.0-0.5(RES)	TIN	2.89 mg/Kg	2.89U mg/Kg
SL-275-SA5B-SS-0.0-0.5(RES)	TIN	2.40 mg/Kg	2.40U mg/Kg
SL-276-SA5B-SS-0.0-0.5(RES)	TIN	2.29 mg/Kg	2.29U mg/Kg
SL-277-SA5B-SS-0.0-0.5(RES)	TIN	2.22 mg/Kg	2.22U mg/Kg
SL-278-SA5B-SS-0.0-0.5(RES)	TIN	2.27 mg/Kg	2.27U mg/Kg
SL-279-SA5B-SS-0.0-0.5(RES)	TIN	2.28 mg/Kg	2.28U mg/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020				
Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35526AB220709A	1/3/2011 7:09:00 AM	COPPER	0.162 mg/Kg	SL-160-SA5B-SS-0.0-0.5 SL-161-SA5B-SS-0.0-0.5 SL-162-SA5B-SS-0.0-0.5 SL-166-SA5B-SS-0.0-0.5 SL-206-SA5B-SS-0.0-0.5 SL-207-SA5B-SS-0.0-0.5 SL-208-SA5B-SS-0.0-0.5 SL-209-SA5B-SS-0.0-0.5 SL-210-SA5B-SS-0.0-0.5 SL-211-SA5B-SS-0.0-0.5 SL-272-SA5B-SS-0.0-0.5 SL-273-SA5B-SS-0.0-0.5 SL-274-SA5B-SS-0.0-0.5 SL-275-SA5B-SS-0.0-0.5 SL-276-SA5B-SS-0.0-0.5 SL-277-SA5B-SS-0.0-0.5 SL-278-SA5B-SS-0.0-0.5 SL-279-SA5B-SS-0.0-0.5

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-274-SA5B-SS-0.0-0.5MS (SL-161-SA5B-SS-0.0-0.5 SL-162-SA5B-SS-0.0-0.5 SL-206-SA5B-SS-0.0-0.5 SL-207-SA5B-SS-0.0-0.5 SL-208-SA5B-SS-0.0-0.5 SL-209-SA5B-SS-0.0-0.5 SL-210-SA5B-SS-0.0-0.5 SL-274-SA5B-SS-0.0-0.5 SL-275-SA5B-SS-0.0-0.5 SL-276-SA5B-SS-0.0-0.5)	FLUORIDE	50	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)
SL-211-SA5B-SS-0.0-0.5MS (SL-160-SA5B-SS-0.0-0.5 SL-166-SA5B-SS-0.0-0.5 SL-211-SA5B-SS-0.0-0.5 SL-272-SA5B-SS-0.0-0.5 SL-273-SA5B-SS-0.0-0.5 SL-277-SA5B-SS-0.0-0.5 SL-278-SA5B-SS-0.0-0.5 SL-279-SA5B-SS-0.0-0.5)	FLUORIDE	50	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA5B-SS-0.0-0.5MS SL-211-SA5B-SS-0.0-0.5MSD (SL-211-SA5B-SS-0.0-0.5)	ENDRIN ENDRIN ALDEHYDE HEPTACHLOR EPOXIDE METHOXYCHLOR	200 162 - -	250 202 158 -	11.00-149.00 10.00-148.00 13.00-157.00 32.00-147.00	- - - 57 (50.00)	ENDRIN ENDRIN ALDEHYDE HEPTACHLOR EPOXIDE METHOXYCHLOR	No Qual Diluted Out
SL-211-SA5B-SS-0.0-0.5MS SL-211-SA5B-SS-0.0-0.5MSD (SL-211-SA5B-SS-0.0-0.5)	4,4'-DDD 4,4'-DDT DIELDRIN ENDOSULFAN I ENDOSULFAN SULFATE	0 0 0 0 0	0 0 0 0 0	16.00-163.00 10.00-176.00 19.00-154.00 16.00-137.00 21.00-160.00	- - - - -	4,4'-DDD 4,4'-DDT DIELDRIN ENDOSULFAN I ENDOSULFAN SULFATE	No Qual Diluted Out

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA5B-SS-0.0-0.5MS SL-211-SA5B-SS-0.0-0.5MSD (SL-211-SA5B-SS-0.0-0.5)	AROCLOR 1016 AROCLOR 1260	171 499	147 183	29.00-146.00 39.00-149.00	- -	AROCLOR 1016, 1221, 1232 AROCLOR 1242, 1248, 1254, 1260	No Qual Diluted Out

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA5B-SS-0.0-0.5MSD (SL-211-SA5B-SS-0.0-0.5)	DICAMBA	-	154	33.00-120.00	57 (50.00)	DICAMBA	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA5B-SS-0.0-0.5MS SL-211-SA5B-SS-0.0-0.5MSD (SL-211-SA5B-SS-0.0-0.5)	2,4-DB DALAPON	15 -	-3 0	20.00-170.00 12.00-86.00	- 200 (50.00)	2,4-DB DALAPON	J(all detects) R(all non-detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA5B-SS-0.0-0.5MS SL-211-SA5B-SS-0.0-0.5MSD (SL-160-SA5B-SS-0.0-0.5 SL-161-SA5B-SS-0.0-0.5 SL-162-SA5B-SS-0.0-0.5 SL-166-SA5B-SS-0.0-0.5 SL-206-SA5B-SS-0.0-0.5 SL-207-SA5B-SS-0.0-0.5 SL-208-SA5B-SS-0.0-0.5 SL-209-SA5B-SS-0.0-0.5 SL-210-SA5B-SS-0.0-0.5 SL-211-SA5B-SS-0.0-0.5 SL-272-SA5B-SS-0.0-0.5 SL-273-SA5B-SS-0.0-0.5 SL-274-SA5B-SS-0.0-0.5 SL-275-SA5B-SS-0.0-0.5 SL-276-SA5B-SS-0.0-0.5 SL-277-SA5B-SS-0.0-0.5 SL-278-SA5B-SS-0.0-0.5 SL-279-SA5B-SS-0.0-0.5)	ANTIMONY LEAD ZINC	17 -40 -113	19 -15 -41	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ANTIMONY LEAD ZINC	J(all detects) UJ(all non-detects) Pb, Zn No Qual, >4x Sb Post Spike = 75%
SL-211-SA5B-SS-0.0-0.5MS SL-211-SA5B-SS-0.0-0.5MSD (SL-160-SA5B-SS-0.0-0.5 SL-161-SA5B-SS-0.0-0.5 SL-162-SA5B-SS-0.0-0.5 SL-166-SA5B-SS-0.0-0.5 SL-206-SA5B-SS-0.0-0.5 SL-207-SA5B-SS-0.0-0.5 SL-208-SA5B-SS-0.0-0.5 SL-209-SA5B-SS-0.0-0.5 SL-210-SA5B-SS-0.0-0.5 SL-211-SA5B-SS-0.0-0.5 SL-272-SA5B-SS-0.0-0.5 SL-273-SA5B-SS-0.0-0.5 SL-274-SA5B-SS-0.0-0.5 SL-275-SA5B-SS-0.0-0.5 SL-276-SA5B-SS-0.0-0.5 SL-277-SA5B-SS-0.0-0.5 SL-278-SA5B-SS-0.0-0.5 SL-279-SA5B-SS-0.0-0.5)	ARSENIC BERYLLIUM CADMIUM CHROMIUM COPPER NICKEL SILVER VANADIUM	31 64 69 56 33 63 60 44	- - 73 41 303 72 - 36	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - 53 (20.00) - - -	ARSENIC BERYLLIUM CADMIUM CHROMIUM COPPER NICKEL SILVER VANADIUM	J(all detects) UJ(all non-detects) As No Qual, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA5B-SS-0.0-0.5MS SL-211-SA5B-SS-0.0-0.5MSD (SL-160-SA5B-SS-0.0-0.5 SL-161-SA5B-SS-0.0-0.5 SL-162-SA5B-SS-0.0-0.5 SL-166-SA5B-SS-0.0-0.5 SL-206-SA5B-SS-0.0-0.5 SL-207-SA5B-SS-0.0-0.5 SL-208-SA5B-SS-0.0-0.5 SL-209-SA5B-SS-0.0-0.5 SL-210-SA5B-SS-0.0-0.5 SL-211-SA5B-SS-0.0-0.5 SL-272-SA5B-SS-0.0-0.5 SL-273-SA5B-SS-0.0-0.5 SL-274-SA5B-SS-0.0-0.5 SL-275-SA5B-SS-0.0-0.5 SL-276-SA5B-SS-0.0-0.5 SL-277-SA5B-SS-0.0-0.5 SL-278-SA5B-SS-0.0-0.5 SL-279-SA5B-SS-0.0-0.5)	CALCIUM MAGNESIUM	-8 -5	231 287	75.00-125.00 75.00-125.00	- -	CALCIUM MAGNESIUM	No Qual, >4x
SL-211-SA5B-SS-0.0-0.5MS (SL-160-SA5B-SS-0.0-0.5 SL-161-SA5B-SS-0.0-0.5 SL-162-SA5B-SS-0.0-0.5 SL-166-SA5B-SS-0.0-0.5 SL-206-SA5B-SS-0.0-0.5 SL-207-SA5B-SS-0.0-0.5 SL-208-SA5B-SS-0.0-0.5 SL-209-SA5B-SS-0.0-0.5 SL-210-SA5B-SS-0.0-0.5 SL-211-SA5B-SS-0.0-0.5 SL-272-SA5B-SS-0.0-0.5 SL-273-SA5B-SS-0.0-0.5 SL-274-SA5B-SS-0.0-0.5 SL-275-SA5B-SS-0.0-0.5 SL-276-SA5B-SS-0.0-0.5 SL-277-SA5B-SS-0.0-0.5 SL-278-SA5B-SS-0.0-0.5 SL-279-SA5B-SS-0.0-0.5)	PHOSPHORUS	50	-	75.00-125.00	-	PHOSPHORUS	No Qual, >4x

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA5B-SS-0.0-0.5MS SL-211-SA5B-SS-0.0-0.5MSD (SL-211-SA5B-SS-0.0-0.5)	2,4-DINITROPHENOL	0	0	20.00-143.00	-	2,4-DINITROPHENOL	J(all detects) R(all non-detects)
SL-211-SA5B-SS-0.0-0.5MS SL-211-SA5B-SS-0.0-0.5MSD (SL-211-SA5B-SS-0.0-0.5)	BENZIDINE	27	28	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA5B-SS-0.0-0.5MS SL-211-SA5B-SS-0.0-0.5MSD (SL-160-SA5B-SS-0.0-0.5 SL-161-SA5B-SS-0.0-0.5 SL-162-SA5B-SS-0.0-0.5 SL-166-SA5B-SS-0.0-0.5 SL-206-SA5B-SS-0.0-0.5 SL-207-SA5B-SS-0.0-0.5 SL-208-SA5B-SS-0.0-0.5 SL-209-SA5B-SS-0.0-0.5 SL-210-SA5B-SS-0.0-0.5 SL-211-SA5B-SS-0.0-0.5 SL-272-SA5B-SS-0.0-0.5 SL-273-SA5B-SS-0.0-0.5 SL-274-SA5B-SS-0.0-0.5 SL-275-SA5B-SS-0.0-0.5 SL-276-SA5B-SS-0.0-0.5 SL-277-SA5B-SS-0.0-0.5 SL-278-SA5B-SS-0.0-0.5 SL-279-SA5B-SS-0.0-0.5)	BARIUM	-159	-80	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA5B-SS-0.0-0.5MS SL-211-SA5B-SS-0.0-0.5MSD (SL-160-SA5B-SS-0.0-0.5 SL-161-SA5B-SS-0.0-0.5 SL-162-SA5B-SS-0.0-0.5 SL-166-SA5B-SS-0.0-0.5 SL-206-SA5B-SS-0.0-0.5 SL-207-SA5B-SS-0.0-0.5 SL-208-SA5B-SS-0.0-0.5 SL-209-SA5B-SS-0.0-0.5 SL-210-SA5B-SS-0.0-0.5 SL-211-SA5B-SS-0.0-0.5 SL-272-SA5B-SS-0.0-0.5 SL-273-SA5B-SS-0.0-0.5 SL-274-SA5B-SS-0.0-0.5 SL-275-SA5B-SS-0.0-0.5 SL-276-SA5B-SS-0.0-0.5 SL-277-SA5B-SS-0.0-0.5 SL-278-SA5B-SS-0.0-0.5 SL-279-SA5B-SS-0.0-0.5)	ALUMINUM IRON MANGANESE TITANIUM	680 703 193 185	2511 1673 - 265	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM IRON MANGANESE TITANIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA5B-SS-0.0-0.5MS (SL-211-SA5B-SS-0.0-0.5)	Butylbenzylphthalate	165	-	73.00-140.00	-	Butylbenzylphthalate	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-211-SA5B-SS-0.0-0.5DUP (SL-160-SA5B-SS-0.0-0.5 SL -161-SA5B-SS-0.0-0.5 SL -162-SA5B-SS-0.0-0.5 SL -166-SA5B-SS-0.0-0.5 SL -206-SA5B-SS-0.0-0.5 SL -207-SA5B-SS-0.0-0.5 SL -208-SA5B-SS-0.0-0.5 SL -209-SA5B-SS-0.0-0.5 SL -210-SA5B-SS-0.0-0.5 SL -211-SA5B-SS-0.0-0.5 SL -272-SA5B-SS-0.0-0.5 SL -273-SA5B-SS-0.0-0.5 SL -274-SA5B-SS-0.0-0.5 SL -275-SA5B-SS-0.0-0.5 SL -276-SA5B-SS-0.0-0.5 SL -277-SA5B-SS-0.0-0.5 SL -278-SA5B-SS-0.0-0.5 SL -279-SA5B-SS-0.0-0.5)	ANTIMONY CADMIUM	54 21	20.00 20.00	J (all detects) UJ (all non-detects) Sb No Qual OK by difference

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-211-SA5B-SS-0.0-0.5DUP (SL-160-SA5B-SS-0.0-0.5 SL -161-SA5B-SS-0.0-0.5 SL -162-SA5B-SS-0.0-0.5 SL -166-SA5B-SS-0.0-0.5 SL -206-SA5B-SS-0.0-0.5 SL -207-SA5B-SS-0.0-0.5 SL -208-SA5B-SS-0.0-0.5 SL -209-SA5B-SS-0.0-0.5 SL -210-SA5B-SS-0.0-0.5 SL -211-SA5B-SS-0.0-0.5 SL -272-SA5B-SS-0.0-0.5 SL -273-SA5B-SS-0.0-0.5 SL -274-SA5B-SS-0.0-0.5 SL -275-SA5B-SS-0.0-0.5 SL -276-SA5B-SS-0.0-0.5 SL -277-SA5B-SS-0.0-0.5 SL -278-SA5B-SS-0.0-0.5 SL -279-SA5B-SS-0.0-0.5)	HEXAVALENT CHROMIUM	95	20.00	No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-274-SA5B-SS-0.0-0.5DUP (SL-161-SA5B-SS-0.0-0.5 SL -162-SA5B-SS-0.0-0.5 SL -206-SA5B-SS-0.0-0.5 SL -207-SA5B-SS-0.0-0.5 SL -208-SA5B-SS-0.0-0.5 SL -209-SA5B-SS-0.0-0.5 SL -210-SA5B-SS-0.0-0.5 SL -274-SA5B-SS-0.0-0.5 SL -275-SA5B-SS-0.0-0.5 SL -276-SA5B-SS-0.0-0.5)	FLUORIDE	22	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03611AQ242239A (SL -160-SA5B-SS-0.0-0.5 SL -161-SA5B-SS-0.0-0.5 SL -162-SA5B-SS-0.0-0.5 SL -166-SA5B-SS-0.0-0.5 SL -206-SA5B-SS-0.0-0.5 SL -207-SA5B-SS-0.0-0.5 SL -208-SA5B-SS-0.0-0.5 SL -209-SA5B-SS-0.0-0.5 SL -210-SA5B-SS-0.0-0.5 SL -211-SA5B-SS-0.0-0.5 SL -272-SA5B-SS-0.0-0.5 SL -273-SA5B-SS-0.0-0.5 SL -274-SA5B-SS-0.0-0.5 SL -275-SA5B-SS-0.0-0.5 SL -276-SA5B-SS-0.0-0.5 SL -277-SA5B-SS-0.0-0.5 SL -278-SA5B-SS-0.0-0.5 SL -279-SA5B-SS-0.0-0.5)	DIELDRIN	62	-	65.00-129.00	-	DIELDRIN	J (all detects) UJ (all non-detects)

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03612AQ240014A P03612AY242355A (SL -160-SA5B-SS-0.0-0.5 SL -161-SA5B-SS-0.0-0.5 SL -162-SA5B-SS-0.0-0.5 SL -166-SA5B-SS-0.0-0.5 SL -206-SA5B-SS-0.0-0.5 SL -207-SA5B-SS-0.0-0.5 SL -208-SA5B-SS-0.0-0.5 SL -209-SA5B-SS-0.0-0.5 SL -210-SA5B-SS-0.0-0.5 SL -211-SA5B-SS-0.0-0.5 SL -272-SA5B-SS-0.0-0.5 SL -273-SA5B-SS-0.0-0.5 SL -274-SA5B-SS-0.0-0.5 SL -275-SA5B-SS-0.0-0.5 SL -276-SA5B-SS-0.0-0.5 SL -277-SA5B-SS-0.0-0.5 SL -278-SA5B-SS-0.0-0.5 SL -279-SA5B-SS-0.0-0.5)	Aroclor 5442	53	62	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03636AQ240926A (SL-160-SA5B-SS-0.0-0.5 SL-161-SA5B-SS-0.0-0.5 SL-162-SA5B-SS-0.0-0.5 SL-166-SA5B-SS-0.0-0.5 SL-206-SA5B-SS-0.0-0.5 SL-207-SA5B-SS-0.0-0.5 SL-208-SA5B-SS-0.0-0.5 SL-209-SA5B-SS-0.0-0.5 SL-210-SA5B-SS-0.0-0.5 SL-211-SA5B-SS-0.0-0.5 SL-272-SA5B-SS-0.0-0.5 SL-273-SA5B-SS-0.0-0.5 SL-274-SA5B-SS-0.0-0.5 SL-275-SA5B-SS-0.0-0.5 SL-276-SA5B-SS-0.0-0.5 SL-277-SA5B-SS-0.0-0.5 SL-278-SA5B-SS-0.0-0.5 SL-279-SA5B-SS-0.0-0.5)	DICHLOROPROP	167	-	60.00-141.00	-	DICHLOROPROP	J(all detects)
P03636AQ240926A (SL-160-SA5B-SS-0.0-0.5 SL-161-SA5B-SS-0.0-0.5 SL-162-SA5B-SS-0.0-0.5 SL-166-SA5B-SS-0.0-0.5 SL-206-SA5B-SS-0.0-0.5 SL-207-SA5B-SS-0.0-0.5 SL-208-SA5B-SS-0.0-0.5 SL-209-SA5B-SS-0.0-0.5 SL-210-SA5B-SS-0.0-0.5 SL-211-SA5B-SS-0.0-0.5 SL-272-SA5B-SS-0.0-0.5 SL-273-SA5B-SS-0.0-0.5 SL-274-SA5B-SS-0.0-0.5 SL-275-SA5B-SS-0.0-0.5 SL-276-SA5B-SS-0.0-0.5 SL-277-SA5B-SS-0.0-0.5 SL-278-SA5B-SS-0.0-0.5 SL-279-SA5B-SS-0.0-0.5)	DINOSEB	9	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P2LGLCSQ262011 (SL-160-SA5B-SS-0.0-0.5 SL-161-SA5B-SS-0.0-0.5 SL-162-SA5B-SS-0.0-0.5 SL-166-SA5B-SS-0.0-0.5 SL-206-SA5B-SS-0.0-0.5 SL-207-SA5B-SS-0.0-0.5 SL-208-SA5B-SS-0.0-0.5 SL-209-SA5B-SS-0.0-0.5 SL-210-SA5B-SS-0.0-0.5 SL-211-SA5B-SS-0.0-0.5 SL-272-SA5B-SS-0.0-0.5 SL-273-SA5B-SS-0.0-0.5 SL-274-SA5B-SS-0.0-0.5 SL-275-SA5B-SS-0.0-0.5 SL-276-SA5B-SS-0.0-0.5 SL-277-SA5B-SS-0.0-0.5 SL-278-SA5B-SS-0.0-0.5 SL-279-SA5B-SS-0.0-0.5)	3,3'-DICHLOROBENZIDINE	32	-	38.00-105.00	-	3,3'-DICHLOROBENZIDINE	J(all detects) UU(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
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Surrogate Outlier Report

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-162-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	129	20.00-120.00	All Target Analytes	No Qual Diluted out
SL-211-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	396	20.00-120.00	All Target Analytes	No Qual Diluted out
SL-273-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	172	20.00-120.00	All Target Analytes	No Qual Diluted out
SL-274-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	248	20.00-120.00	All Target Analytes	No Qual Diluted out

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-209-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	214	45.00-120.00	All Target Analytes	J(all detects)
	TETRACHLORO-M-XYLENE	165	53.00-139.00		
SL-210-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	167	45.00-120.00	All Target Analytes	J(all detects)
SL-211-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	135	45.00-120.00	All Target Analytes	No Qual Diluted out
SL-273-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	132	45.00-120.00	All Target Analytes	No Qual Diluted out
SL-274-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	139	45.00-120.00	All Target Analytes	No Qual Diluted out
SL-275-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	126	45.00-120.00	All Target Analytes	J(all detects)
SL-278-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	123	45.00-120.00	All Target Analytes	J(all detects)
SL-279-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J(all detects)

Method: 8151A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-208-SA5B-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	192	36.00-156.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-160-SA5B-SS-0.0-0.5	BORON	J	3.59	5.39	PQL	mg/Kg	J (all detects)
	TIN	J	2.83	10.8	PQL	mg/Kg	
	Zirconium	J	2.37	5.39	PQL	mg/Kg	
SL-161-SA5B-SS-0.0-0.5	SODIUM	J	91.5	114	PQL	mg/Kg	J (all detects)
	TIN	J	3.23	11.4	PQL	mg/Kg	
	Zirconium	J	1.35	5.71	PQL	mg/Kg	
SL-162-SA5B-SS-0.0-0.5	TIN	J	3.78	11.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.85	5.83	PQL	mg/Kg	
SL-166-SA5B-SS-0.0-0.5	BORON	J	4.80	5.21	PQL	mg/Kg	J (all detects)
	SODIUM	J	84.6	104	PQL	mg/Kg	
	TIN	J	2.63	10.4	PQL	mg/Kg	
	Zirconium	J	1.08	5.21	PQL	mg/Kg	
SL-206-SA5B-SS-0.0-0.5	BORON	J	4.94	5.18	PQL	mg/Kg	J (all detects)
	SODIUM	J	76.5	104	PQL	mg/Kg	
	TIN	J	2.36	10.4	PQL	mg/Kg	
	Zirconium	J	1.11	5.18	PQL	mg/Kg	
SL-207-SA5B-SS-0.0-0.5	SODIUM	J	92.7	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.63	10.3	PQL	mg/Kg	
	Zirconium	J	1.26	5.15	PQL	mg/Kg	
SL-208-SA5B-SS-0.0-0.5	SODIUM	J	79.1	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.40	10.2	PQL	mg/Kg	
	Zirconium	J	1.15	5.09	PQL	mg/Kg	
SL-209-SA5B-SS-0.0-0.5	SODIUM	J	78.4	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.57	10.5	PQL	mg/Kg	
	Zirconium	J	1.22	5.24	PQL	mg/Kg	
SL-210-SA5B-SS-0.0-0.5	SODIUM	J	82.7	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.63	10.3	PQL	mg/Kg	
	Zirconium	J	1.66	5.17	PQL	mg/Kg	
SL-211-SA5B-SS-0.0-0.5	BORON	J	5.21	5.59	PQL	mg/Kg	J (all detects)
	TIN	J	3.07	11.2	PQL	mg/Kg	
	Zirconium	J	2.37	5.59	PQL	mg/Kg	
SL-272-SA5B-SS-0.0-0.5	SODIUM	J	71.1	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.16	10.4	PQL	mg/Kg	
	Zirconium	J	1.12	5.21	PQL	mg/Kg	
SL-273-SA5B-SS-0.0-0.5	BORON	J	4.94	5.19	PQL	mg/Kg	J (all detects)
	TIN	J	3.06	10.4	PQL	mg/Kg	
	Zirconium	J	1.49	5.19	PQL	mg/Kg	
SL-274-SA5B-SS-0.0-0.5	BORON	J	4.85	5.28	PQL	mg/Kg	J (all detects)
	TIN	J	2.89	10.6	PQL	mg/Kg	
	Zirconium	J	1.62	5.28	PQL	mg/Kg	
SL-275-SA5B-SS-0.0-0.5	SODIUM	J	83.4	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.40	10.4	PQL	mg/Kg	
	Zirconium	J	1.36	5.18	PQL	mg/Kg	
SL-276-SA5B-SS-0.0-0.5	SODIUM	J	79.8	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.29	10.2	PQL	mg/Kg	
SL-277-SA5B-SS-0.0-0.5	SODIUM	J	83.8	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.22	10.4	PQL	mg/Kg	
	Zirconium	J	1.30	5.19	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-278-SA5B-SS-0.0-0.5	BORON	J	4.07	5.03	PQL	mg/Kg	J (all detects)
	SODIUM	J	84.1	101	PQL	mg/Kg	
	TIN	J	2.27	10.1	PQL	mg/Kg	
SL-279-SA5B-SS-0.0-0.5	SODIUM	J	79.3	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.28	10.6	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-160-SA5B-SS-0.0-0.5	SELENIUM	J	0.110	0.423	PQL	mg/Kg	J (all detects)
SL-161-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0820	0.240	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.208	0.480	PQL	mg/Kg	
SL-162-SA5B-SS-0.0-0.5	ANTIMONY	J	0.121	0.229	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.271	0.457	PQL	mg/Kg	
SL-166-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0679	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.116	0.401	PQL	mg/Kg	
SL-206-SA5B-SS-0.0-0.5	SELENIUM	J	0.116	0.406	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0501	0.102	PQL	mg/Kg	
SL-207-SA5B-SS-0.0-0.5	ANTIMONY	J	0.102	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.144	0.420	PQL	mg/Kg	
SL-208-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0665	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.159	0.416	PQL	mg/Kg	
SL-209-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0718	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.115	0.411	PQL	mg/Kg	
SL-210-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0820	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.154	0.405	PQL	mg/Kg	
SL-211-SA5B-SS-0.0-0.5	ANTIMONY	J	0.218	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.319	0.447	PQL	mg/Kg	
SL-272-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0813	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.111	0.413	PQL	mg/Kg	
	SILVER	J	0.0643	0.103	PQL	mg/Kg	
SL-273-SA5B-SS-0.0-0.5	ANTIMONY	J	0.134	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.242	0.423	PQL	mg/Kg	
SL-274-SA5B-SS-0.0-0.5	ANTIMONY	J	0.105	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.197	0.427	PQL	mg/Kg	
SL-275-SA5B-SS-0.0-0.5	SELENIUM	J	0.144	0.419	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0566	0.105	PQL	mg/Kg	
SL-276-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0784	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.125	0.401	PQL	mg/Kg	
	SILVER	J	0.0547	0.100	PQL	mg/Kg	
SL-277-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0828	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.110	0.407	PQL	mg/Kg	
	SILVER	J	0.0757	0.102	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-278-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0969	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.124	0.407	PQL	mg/Kg	
	SILVER	J	0.0721	0.102	PQL	mg/Kg	
SL-279-SA5B-SS-0.0-0.5	SELENIUM	J	0.113	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.105	0.106	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-160-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.77	1.1	PQL	mg/Kg	J (all detects)
SL-162-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.76	1.2	PQL	mg/Kg	J (all detects)
SL-166-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.66	1.0	PQL	mg/Kg	J (all detects)
SL-206-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.37	1.0	PQL	mg/Kg	J (all detects)
SL-207-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.97	1.1	PQL	mg/Kg	J (all detects)
SL-208-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.78	1.0	PQL	mg/Kg	J (all detects)
SL-209-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.45	1.1	PQL	mg/Kg	J (all detects)
SL-210-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.38	1.1	PQL	mg/Kg	J (all detects)
SL-211-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.87	1.1	PQL	mg/Kg	J (all detects)
SL-272-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.51	1.1	PQL	mg/Kg	J (all detects)
SL-274-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.71	1.1	PQL	mg/Kg	J (all detects)
SL-275-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.39	1.1	PQL	mg/Kg	J (all detects)
SL-276-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.30	1.0	PQL	mg/Kg	J (all detects)
SL-278-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.56	1.0	PQL	mg/Kg	J (all detects)
SL-279-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.34	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-160-SA5B-SS-0.0-0.5	MERCURY	J	0.0279	0.104	PQL	mg/Kg	J (all detects)
SL-162-SA5B-SS-0.0-0.5	MERCURY	J	0.0815	0.119	PQL	mg/Kg	J (all detects)
SL-166-SA5B-SS-0.0-0.5	MERCURY	J	0.0100	0.104	PQL	mg/Kg	J (all detects)
SL-207-SA5B-SS-0.0-0.5	MERCURY	J	0.0151	0.103	PQL	mg/Kg	J (all detects)
SL-208-SA5B-SS-0.0-0.5	MERCURY	J	0.0033	0.0991	PQL	mg/Kg	J (all detects)
SL-209-SA5B-SS-0.0-0.5	MERCURY	J	0.0253	0.101	PQL	mg/Kg	J (all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-210-SA5B-SS-0.0-0.5	MERCURY	J	0.0284	0.102	PQL	mg/Kg	J (all detects)
SL-211-SA5B-SS-0.0-0.5	MERCURY	J	0.0687	0.107	PQL	mg/Kg	J (all detects)
SL-273-SA5B-SS-0.0-0.5	MERCURY	J	0.0735	0.101	PQL	mg/Kg	J (all detects)
SL-274-SA5B-SS-0.0-0.5	MERCURY	J	0.0567	0.108	PQL	mg/Kg	J (all detects)
SL-275-SA5B-SS-0.0-0.5	MERCURY	J	0.0042	0.100	PQL	mg/Kg	J (all detects)
SL-276-SA5B-SS-0.0-0.5	MERCURY	J	0.0034	0.103	PQL	mg/Kg	J (all detects)
SL-277-SA5B-SS-0.0-0.5	MERCURY	J	0.0037	0.106	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-160-SA5B-SS-0.0-0.5	ALPHA-BHC	J	0.048	0.18	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.14	0.18	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.16	0.18	PQL	ug/Kg	
SL-211-SA5B-SS-0.0-0.5	ALPHA-BHC	J	0.088	0.19	PQL	ug/Kg	J (all detects)
SL-272-SA5B-SS-0.0-0.5	ALPHA-BHC	J	0.051	0.17	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.058	0.17	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.053	0.17	PQL	ug/Kg	
SL-275-SA5B-SS-0.0-0.5	HEPTACHLOR EPOXIDE	J	0.066	0.18	PQL	ug/Kg	J (all detects)
SL-278-SA5B-SS-0.0-0.5	BETA-BHC	J	0.096	0.17	PQL	ug/Kg	J (all detects)
	gamma-BHC (Lindane)	J	0.045	0.17	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-208-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.67	1.8	PQL	ug/Kg	J (all detects)
SL-272-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.2	1.8	PQL	ug/Kg	
SL-275-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.6	1.8	PQL	ug/Kg	
SL-277-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.65	1.8	PQL	ug/Kg	J (all detects)
SL-279-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.7	1.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-207-SA5B-SS-0.0-0.5	DICAMBA	J	0.68	1.3	PQL	ug/Kg	J (all detects)
SL-208-SA5B-SS-0.0-0.5	DICAMBA	J	0.75	1.3	PQL	ug/Kg	J (all detects)
	DINOSEB	J	1.2	2.5	PQL	ug/Kg	
SL-210-SA5B-SS-0.0-0.5	MCPP	J	210	260	PQL	ug/Kg	J (all detects)
SL-274-SA5B-SS-0.0-0.5	DICAMBA	J	0.47	1.3	PQL	ug/Kg	J (all detects)
SL-278-SA5B-SS-0.0-0.5	DICAMBA	J	0.76	1.3	PQL	ug/Kg	J (all detects)
SL-279-SA5B-SS-0.0-0.5	DICAMBA	J	0.60	1.3	PQL	ug/Kg	J (all detects)
	MCPP	J	170	270	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-161-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	29	400	PQL	ug/Kg	J (all detects)
	PYRENE	J	23	200	PQL	ug/Kg	
SL-207-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	37	350	PQL	ug/Kg	J (all detects)
SL-208-SA5B-SS-0.0-0.5	FLUORANTHENE	J	20	170	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	31	170	PQL	ug/Kg	
SL-211-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	31	380	PQL	ug/Kg	J (all detects)
SL-276-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	350	PQL	ug/Kg	J (all detects)
SL-278-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	41	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	31	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	43	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	19	170	PQL	ug/Kg	
	CHRYSENE	J	38	170	PQL	ug/Kg	
	FLUORANTHENE	J	74	170	PQL	ug/Kg	
	PHENANTHRENE	J	45	170	PQL	ug/Kg	
	PYRENE	J	75	170	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-160-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	0.38	1.9	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.0	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.7	20	PQL	ug/Kg	
	NAPHTHALENE	J	0.80	1.9	PQL	ug/Kg	
SL-161-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.6	2.0	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	1.1	2.0	PQL	ug/Kg	
	Butylbenzylphthalate	J	14	22	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.1	2.0	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-162-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.93	2.0	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.8	2.0	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.74	2.0	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.9	22	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.1	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	1.7	2.0	PQL	ug/Kg	
SL-166-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	0.38	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.2	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.6	19	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	1.0	1.7	PQL	ug/Kg	
SL-206-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.8	19	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	13	19	PQL	ug/Kg	
SL-207-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.89	1.8	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.63	1.8	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.5	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.3	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.0	1.8	PQL	ug/Kg	
SL-208-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.97	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.3	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.5	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.81	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	16	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	13	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.95	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.80	1.7	PQL	ug/Kg	
SL-209-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.58	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.5	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.6	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	19	PQL	ug/Kg	
	NAPHTHALENE	J	0.87	1.8	PQL	ug/Kg	
SL-210-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.61	1.8	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	6.5	19	PQL	ug/Kg	
	NAPHTHALENE	J	0.83	1.8	PQL	ug/Kg	
SL-211-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	1.2	1.9	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	0.56	1.9	PQL	ug/Kg	
	ANTHRACENE	J	1.6	1.9	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.1	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.9	PQL	ug/Kg	
SL-272-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.41	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.91	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	13	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.83	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.98	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE044

Laboratory: LL

EDD Filename: DE044_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-273-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	0.41	1.8	PQL	ug/Kg	
	ANTHRACENE	J	1.3	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	13	19	PQL	ug/Kg	
	NAPHTHALENE	J	1.6	1.8	PQL	ug/Kg	
SL-274-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.95	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.8	20	PQL	ug/Kg	
	NAPHTHALENE	J	0.84	1.8	PQL	ug/Kg	
SL-275-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.44	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.3	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.91	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	13	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.0	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.81	1.8	PQL	ug/Kg	
SL-276-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.6	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.48	1.7	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.77	1.7	PQL	ug/Kg	
	Di-n-octylphthalate	J	14	19	PQL	ug/Kg	
	NAPHTHALENE	J	1.6	1.7	PQL	ug/Kg	
SL-277-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.5	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.5	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.3	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.7	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	13	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.93	1.8	PQL	ug/Kg	
SL-278-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.0	1.7	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.2	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	13	19	PQL	ug/Kg	
	NAPHTHALENE	J	1.0	1.7	PQL	ug/Kg	
SL-279-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.89	1.8	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.41	1.8	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.5	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.3	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	14	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.6	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.85	1.8	PQL	ug/Kg	

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	A	ICP/MS hits - No Qual
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MSD (Al, As, Ba, Ca, Fe, Pb, Mg, Mn, P, Ti, Zn > 4x)
VII.	Duplicate Sample Analysis	N	Dup (SB, R, S, R, C)
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/US/A
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	—	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil

1	SL-207-SA5B-SS-0.0-0.5	11	SL-166-SA5B-SS-0.0-0.5	21	SL-211-SA5B-SS-0.0-0.5DUP	31	
2	SL-208-SA5B-SS-0.0-0.5	12	SL-160-SA5B-SS-0.0-0.5	22		32	
3	SL-276-SA5B-SS-0.0-0.5	13	SL-211-SA5B-SS-0.0-0.5	23		33	
4	SL-210-SA5B-SS-0.0-0.5	14	SL-278-SA5B-SS-0.0-0.5	24		34	
5	SL-275-SA5B-SS-0.0-0.5	15	SL-279-SA5B-SS-0.0-0.5	25		35	
6	SL-206-SA5B-SS-0.0-0.5	16	SL-277-SA5B-SS-0.0-0.5	26		36	
7	SL-209-SA5B-SS-0.0-0.5	17	SL-273-SA5B-SS-0.0-0.5	27		37	
8	SL-161-SA5B-SS-0.0-0.5	18	SL-272-SA5B-SS-0.0-0.5	28		38	
9	SL-162-SA5B-SS-0.0-0.5	19	SL-211-SA5B-SS-0.0-0.5MS	29		39	
10	SL-274-SA5B-SS-0.0-0.5	20	SL-211-SA5B-SS-0.0-0.5MSD	30		40	

Notes: _____



QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: DE044

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6168987BKG

Serial Dilution Lab Sample ID: 6168987L

Batch ID(s): P35508E, P35526A

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		225005.1900		212170.7500		6		P
Antimony	121	0.9776	B	1.5000	U	100		MS
Arsenic	75	43.5700		41.3800		5		MS
Barium	137	638.0000		675.5000		6		MS
Beryllium	9	4.0770		5.0100		23		MS
Boron		46.5900	B	137.5500	B	195		P
Cadmium	111	7.4840		7.0600		6		MS
Calcium		54225.3500		53956.9000		0		P
Chromium	52	196.6000		235.2500		20	E	MS
Cobalt	59	33.0000		40.7700		24	E	MS
Copper	63	164.3000		208.8500		27	E	MS
Iron		51127.0100		53221.2500		4		P
Lead	208	97.1900		103.3000		6		MS
Lithium		361.3900		353.0500		2		P
Magnesium		54832.5400		55031.0500		0		P
Manganese		3457.3000		3515.7500		2		P
Molybdenum	98	4.8770		5.3200		9		MS
Nickel	60	90.4600		113.5500		26	E	MS
Phosphorus		4918.3000		4881.1000		1		P
Potassium		39538.2100		39309.9500		1		P
Selenium	78	1.4270	B	1.2645	B	11		MS
Silver	107	200.3000		219.8000		10		MS
Sodium		1036.7400		1865.0000	U	100		P
Strontium		364.8800		362.2000		1		P
Thallium	203	1.4470		1.5895	B	10		MS
Tin		27.4900	B	50.0000	U	100		P
Titanium		13307.9800		13237.6000		1		P
Vanadium	51	188.5000		253.4000		34	E	MS
Zinc	66	589.7000		625.0000		6		MS
Zirconium		21.2200	B	42.0000	U	100		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:

P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:

U= Below MDL

B= Below LOQ

FLAGS:

E = Matrix Effects exist as proven by
Serial Dilution or Spiked Dilution

DE044 3312

SAMPLE DELIVERY GROUP

DE045

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	TB-121710	6169030	TB	5030B	8015M	III
17-Dec-2010	TB-121710	6169030	TB	5030B	8260B	III
17-Dec-2010	TB-121710	6169030	TB	5030B	8260B SIM	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	3050B	6010B	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	3050B	6020	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	3060A	7199	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	3550B	8081A	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	3550B	8082	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	3550B	8151A	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	3550B	8270C	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	3550B	8270C SIM	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	Gen Prep	9045M	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	METHOD	300.0	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	METHOD	314.0	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	METHOD	7471A	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5DUP	P169019D271620A	DUP	METHOD	314.0	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5DUP	P169019D271741A	DUP	METHOD	300.0	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5DUP	P169019D291545B	DUP	Gen Prep	9045M	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5MS	P169019R271643A	MS	METHOD	314.0	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5MS	P169019R271755A	MS	METHOD	300.0	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3050B	6010B	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3050B	6020	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3060A	7199	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3546	1625C	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3550B	8015B	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3550B	8015M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3550B	8082	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3550B	8270C	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3550B	8270C SIM	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	5035	8015M	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	5035	8260B	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	5035	8260B SIM	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	8330	8330A	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	Gen Prep	9045M	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	METHOD	300.0	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	METHOD	314.0	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	METHOD	7471A	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	METHOD	8015B	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	METHOD	8015M	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	METHOD	8315A	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	METHOD	9012B	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0MSD	P169024M321741A	MSD	3550B	8015B	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0MS	P169024R321657A	MS	3550B	8015B	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	3050B	6010B	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	3050B	6020	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	3060A	7199	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	3550B	8081A	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	3550B	8082	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	3550B	8151A	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	3550B	8270C	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	3550B	8270C SIM	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	Gen Prep	9045M	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	METHOD	300.0	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	METHOD	314.0	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	METHOD	7471A	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3050B	6010B	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3050B	6020	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3060A	7199	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3546	1625C	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3550B	8015B	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3550B	8015M	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3550B	8082	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3550B	8270C	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3550B	8270C SIM	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	5035	8015M	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	5035	8260B	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	5035	8260B SIM	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	8330	8330A	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	Gen Prep	9045M	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	METHOD	300.0	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	METHOD	314.0	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	METHOD	7471A	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	METHOD	8015B	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	METHOD	8015M	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	METHOD	8315A	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	METHOD	9012B	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	3050B	6010B	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	3050B	6020	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	3060A	7199	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	3550B	8081A	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	3550B	8082	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	3550B	8151A	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	3550B	8270C	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	3550B	8270C SIM	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	Gen Prep	9045M	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	METHOD	300.0	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	METHOD	314.0	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	METHOD	7471A	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3050B	6010B	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3050B	6020	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3060A	7199	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3546	1625C	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3550B	8015B	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3550B	8015M	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3550B	8082	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3550B	8270C	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3550B	8270C SIM	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	5035	8015M	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	5035	8260B	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	5035	8260B SIM	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	8330	8330A	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	Gen Prep	9045M	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	METHOD	300.0	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	METHOD	7471A	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	METHOD	8015B	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	METHOD	8015M	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	METHOD	8315A	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	METHOD	9012B	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	3005A	6010B	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	3020A	6020	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	3510C	8081A	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	3510C	8082	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	3510C	8270C	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	3510C	8270C SIM	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	Gen Prep	300.0	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	Gen Prep	314.0	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	Gen Prep	7199	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	METHOD	7470A	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	METHOD	8151A	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	3005A	6010B	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	3020A	6020	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	3510C	8081A	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	3510C	8082	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	3510C	8270C	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	3510C	8270C SIM	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	Gen Prep	300.0	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	Gen Prep	314.0	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	Gen Prep	7199	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	METHOD	7470A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	EB01-SIV-121710	6169018	EB	METHOD	8151A	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3050B	6010B	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3050B	6020	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3060A	7199	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3546	1625C	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3550B	8015B	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3550B	8015M	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3550B	8082	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3550B	8270C	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3550B	8270C SIM	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	5035	8015M	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	5035	8260B	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	5035	8260B SIM	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	8330	8330A	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	Gen Prep	9045M	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	METHOD	300.0	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	METHOD	314.0	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	METHOD	7471A	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	METHOD	8015B	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	METHOD	8015M	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	METHOD	8315A	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	METHOD	9012B	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	3050B	6010B	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	3050B	6020	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	3060A	7199	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	3550B	8081A	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	3550B	8082	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	3550B	8151A	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	3550B	8270C	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	3550B	8270C SIM	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	Gen Prep	9045M	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	METHOD	300.0	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	METHOD	314.0	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	METHOD	7471A	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	3050B	6010B	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	3050B	6020	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	3060A	7199	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	3550B	8081A	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	3550B	8082	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	3550B	8151A	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	3550B	8270C	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	3550B	8270C SIM	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	Gen Prep	9045M	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	METHOD	300.0	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	METHOD	314.0	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	METHOD	7471A	III
17-Dec-2010	DUP08-SA5B-QC-121710MSD	P169016M240518A	MSD	3550B	8151A	III
17-Dec-2010	DUP08-SA5B-QC-121710MS	P169016R240450A	MS	3550B	8151A	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3050B	6010B	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3050B	6020	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3060A	7199	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3546	1625C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3550B	8015B	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3550B	8015M	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3550B	8082	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3550B	8270C	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3550B	8270C SIM	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	5035	8015M	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	5035	8260B	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	5035	8260B SIM	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	8330	8330A	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	Gen Prep	9045M	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	METHOD	300.0	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	METHOD	314.0	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	METHOD	7471A	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	METHOD	8015B	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	METHOD	8015M	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	METHOD	8315A	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	METHOD	9012B	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0DUP	P169028D271852A	DUP	METHOD	9012B	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0DUP	P169028D272100B	DUP	METHOD	300.0	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0DUP	P169028D272143B	DUP	METHOD	314.0	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0MS	P169028R271853A	MS	METHOD	9012B	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0MS	P169028R272114B	MS	METHOD	300.0	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0MS	P169028R272206B	MS	METHOD	314.0	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3050B	6010B	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3050B	6020	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3060A	7199	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3546	1625C	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3550B	8015B	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3550B	8015M	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3550B	8082	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3550B	8270C	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3550B	8270C SIM	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	5035	8015M	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	5035	8260B	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	5035	8260B SIM	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	8330	8330A	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	Gen Prep	9045M	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	METHOD	300.0	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	METHOD	314.0	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	METHOD	7471A	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	METHOD	8015B	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	METHOD	8015M	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	METHOD	8315A	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	METHOD	9012B	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10DUP	P169029D291740A	DUP	Gen Prep	9045M	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	3050B	6010B	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	3050B	6020	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	3060A	7199	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	3550B	8081A	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	3550B	8082	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	3550B	8151A	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	3550B	8270C SIM	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	Gen Prep	9045M	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	METHOD	300.0	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	METHOD	314.0	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SED-014-SIV-SD-0.0-0.5

Collected: 12/17/2010 8:44:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1	J	0.94	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SB-4.0-5.0

Collected: 12/17/2010 3:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.3		0.90	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.1	J	0.90	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SB-9.0-10

Collected: 12/17/2010 3:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.2		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-281-SA5B-SB-4.0-5.0

Collected: 12/17/2010 12:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.96	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA5B-SB-8.0-9.0

Collected: 12/17/2010 12:37:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.4	J	0.91	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SB-4.0-5.0

Collected: 12/17/2010 10:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SB-7.0-8.0

Collected: 12/17/2010 10:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/23/2011 10:14:33 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: DUP08-SA5B-QC-121710

Collected: 12/17/2010 2:07:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.08	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	4.80	J	0.897	MDL	5.34	PQL	mg/Kg	J	Z

Sample ID: SED-001-SIV-SD-0.0-0.5

Collected: 12/17/2010 12:41:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	110	J	41.6	MDL	112	PQL	mg/Kg	J	Z
TIN	2.27	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	4.21	J	0.937	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SED-004-SIV-SD-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.30	J	1.24	MDL	12.4	PQL	mg/Kg	U	B

Sample ID: SED-006-SIV-SD-0.0-0.5

Collected: 12/17/2010 3:25:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	113	J	44.8	MDL	120	PQL	mg/Kg	J	Z
TIN	2.79	J	1.20	MDL	12.0	PQL	mg/Kg	U	B

Sample ID: SED-012-SIV-SD-0.0-0.5

Collected: 12/17/2010 10:24:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	78.1	J	39.6	MDL	106	PQL	mg/Kg	J	Z
TIN	2.05	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.57	J	0.892	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SED-014-SIV-SD-0.0-0.5

Collected: 12/17/2010 8:44:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	101	J	43.4	MDL	116	PQL	mg/Kg	J	Z
TIN	2.99	J	1.16	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	2.40	J	0.978	MDL	5.82	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-026-SA5B-SB-4.0-5.0

Collected: 12/17/2010 3:08:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.43	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	5.01	J	0.936	MDL	5.57	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SB-9.0-10

Collected: 12/17/2010 3:19:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.31	J	0.943	MDL	5.30	PQL	mg/Kg	J	Z
TIN	2.36	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.87	J	0.890	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA5B-SB-4.0-5.0

Collected: 12/17/2010 12:30:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.56	J	1.18	MDL	11.8	PQL	mg/Kg	U	B

Sample ID: SL-281-SA5B-SB-8.0-9.0

Collected: 12/17/2010 12:37:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.56	J	1.14	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.12	J	0.959	MDL	5.71	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SB-4.0-5.0

Collected: 12/17/2010 10:20:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	59.8	J	40.0	MDL	107	PQL	mg/Kg	J	Z
TIN	1.98	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.33	J	0.901	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SB-4.0-5.0

Collected: 12/17/2010 10:20:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.55	J	0.955	MDL	5.36	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-282-SA5B-SB-7.0-8.0

Collected: 12/17/2010 10:28:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.08	J	0.937	MDL	5.27	PQL	mg/Kg	J	Z
SODIUM	83.3	J	39.3	MDL	105	PQL	mg/Kg	J	Z
TIN	2.05	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.99	J	0.885	MDL	5.27	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP08-SA5B-QC-121710

Collected: 12/17/2010 2:07:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.113	J	0.0659	MDL	0.220	PQL	mg/Kg	J	Z, Q
ARSENIC	11.8		0.0659	MDL	0.440	PQL	mg/Kg	J	Q
CADMIUM	1.70		0.0396	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	47.2		0.132	MDL	0.440	PQL	mg/Kg	J	Q
COBALT	8.63		0.0220	MDL	0.110	PQL	mg/Kg	J	A
COPPER	39.6		0.0725	MDL	0.440	PQL	mg/Kg	J	Q
LEAD	21.6		0.0114	MDL	0.220	PQL	mg/Kg	J	Q
NICKEL	23.4		0.110	MDL	0.440	PQL	mg/Kg	J	Q, A
VANADIUM	59.1		0.0242	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: DUP08-SA5B-QC-121710

Collected: 12/17/2010 2:07:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.266	J	0.0440	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: DUP08-SA5B-QC-121710

Collected: 12/17/2010 2:07:00

Analysis Type: REA6

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.31		0.0550	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SED-001-SIV-SD-0.0-0.5

Collected: 12/17/2010 12:41:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.118	J	0.0663	MDL	0.221	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-001-SIV-SD-0.0-0.5

Collected: 12/17/2010 12:41:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.32		0.0663	MDL	0.442	PQL	mg/Kg	J	Q
CADMIUM	0.457		0.0398	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	26.7		0.133	MDL	0.442	PQL	mg/Kg	J	Q
COBALT	7.38		0.0221	MDL	0.110	PQL	mg/Kg	J	A
COPPER	13.2		0.0729	MDL	0.442	PQL	mg/Kg	J	Q
LEAD	15.3		0.0115	MDL	0.221	PQL	mg/Kg	J	Q
NICKEL	16.0		0.110	MDL	0.442	PQL	mg/Kg	J	Q, A
SILVER	0.0983	J	0.0133	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	48.4		0.0243	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SED-001-SIV-SD-0.0-0.5

Collected: 12/17/2010 12:41:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.230	J	0.0442	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SED-001-SIV-SD-0.0-0.5

Collected: 12/17/2010 12:41:00

Analysis Type: REA6

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.05		0.0552	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SED-004-SIV-SD-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.113	J	0.0721	MDL	0.240	PQL	mg/Kg	J	Z, Q
ARSENIC	8.81		0.0721	MDL	0.481	PQL	mg/Kg	J	Q
CADMIUM	0.371		0.0433	MDL	0.120	PQL	mg/Kg	J	Q
CHROMIUM	43.6		0.144	MDL	0.481	PQL	mg/Kg	J	Q
COBALT	11.6		0.0240	MDL	0.120	PQL	mg/Kg	J	A
COPPER	17.8		0.0793	MDL	0.481	PQL	mg/Kg	J	Q
LEAD	12.9		0.0125	MDL	0.240	PQL	mg/Kg	J	Q
NICKEL	21.8		0.120	MDL	0.481	PQL	mg/Kg	J	Q, A
SILVER	0.0368	J	0.0144	MDL	0.120	PQL	mg/Kg	J	Z
VANADIUM	83.9		0.0264	MDL	0.120	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/23/2011 10:14:34 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-004-SIV-SD-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: REA6

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.614		0.0601	MDL	0.120	PQL	mg/Kg	J	Q

Sample ID: SED-006-SIV-SD-0.0-0.5

Collected: 12/17/2010 3:25:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.174	J	0.0734	MDL	0.245	PQL	mg/Kg	J	Z, Q
ARSENIC	7.45		0.0734	MDL	0.490	PQL	mg/Kg	J	Q
CADMIUM	0.752		0.0441	MDL	0.122	PQL	mg/Kg	J	Q
CHROMIUM	38.0		0.147	MDL	0.490	PQL	mg/Kg	J	Q
COBALT	10.3		0.0245	MDL	0.122	PQL	mg/Kg	J	A
COPPER	17.7		0.0808	MDL	0.490	PQL	mg/Kg	J	Q
LEAD	31.1		0.0127	MDL	0.245	PQL	mg/Kg	J	Q
NICKEL	21.8		0.122	MDL	0.490	PQL	mg/Kg	J	Q, A
SILVER	0.0845	J	0.0147	MDL	0.122	PQL	mg/Kg	J	Z
VANADIUM	68.9		0.0269	MDL	0.122	PQL	mg/Kg	J	Q

Sample ID: SED-006-SIV-SD-0.0-0.5

Collected: 12/17/2010 3:25:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.193	J	0.0490	MDL	0.490	PQL	mg/Kg	J	Z

Sample ID: SED-006-SIV-SD-0.0-0.5

Collected: 12/17/2010 3:25:00

Analysis Type: REA6

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.893		0.0612	MDL	0.122	PQL	mg/Kg	J	Q

Sample ID: SED-012-SIV-SD-0.0-0.5

Collected: 12/17/2010 10:24:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.100	J	0.0607	MDL	0.202	PQL	mg/Kg	J	Z, Q
ARSENIC	5.73		0.0607	MDL	0.404	PQL	mg/Kg	J	Q
CADMIUM	0.157		0.0364	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	15.3		0.121	MDL	0.404	PQL	mg/Kg	J	Q
COBALT	4.48		0.0202	MDL	0.101	PQL	mg/Kg	J	A
COPPER	7.46		0.0667	MDL	0.404	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-012-SIV-SD-0.0-0.5

Collected: 12/17/2010 10:24:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	9.90		0.0105	MDL	0.202	PQL	mg/Kg	J	Q
NICKEL	9.76		0.101	MDL	0.404	PQL	mg/Kg	J	Q, A
SILVER	0.0246	J	0.0121	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	32.1		0.0222	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SED-012-SIV-SD-0.0-0.5

Collected: 12/17/2010 10:24:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.172	J	0.0404	MDL	0.404	PQL	mg/Kg	J	Z

Sample ID: SED-012-SIV-SD-0.0-0.5

Collected: 12/17/2010 10:24:00

Analysis Type: REA6

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.478		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SED-014-SIV-SD-0.0-0.5

Collected: 12/17/2010 8:44:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.101	J	0.0692	MDL	0.231	PQL	mg/Kg	J	Z, Q
ARSENIC	5.93		0.0692	MDL	0.461	PQL	mg/Kg	J	Q
CADMIUM	0.279		0.0415	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	22.9		0.138	MDL	0.461	PQL	mg/Kg	J	Q
COBALT	8.83		0.0231	MDL	0.115	PQL	mg/Kg	J	A
COPPER	10.8		0.0761	MDL	0.461	PQL	mg/Kg	J	Q
LEAD	12.2		0.0120	MDL	0.231	PQL	mg/Kg	J	Q
NICKEL	14.4		0.115	MDL	0.461	PQL	mg/Kg	J	Q, A
SILVER	0.0350	J	0.0138	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	47.2		0.0254	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SED-014-SIV-SD-0.0-0.5

Collected: 12/17/2010 8:44:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.239	J	0.0461	MDL	0.461	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/23/2011 10:14:34 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SED-014-SIV-SD-0.0-0.5

Collected: 12/17/2010 8:44:00

Analysis Type: REA6

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.09		0.0577	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA5B-SB-4.0-5.0

Collected: 12/17/2010 3:08:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.137	J	0.0668	MDL	0.223	PQL	mg/Kg	J	Z, Q
ARSENIC	8.38		0.0668	MDL	0.445	PQL	mg/Kg	J	Q
CADMIUM	0.211		0.0401	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	39.6		0.134	MDL	0.445	PQL	mg/Kg	J	Q
COBALT	9.07		0.0223	MDL	0.111	PQL	mg/Kg	J	A
COPPER	15.0		0.0735	MDL	0.445	PQL	mg/Kg	J	Q
LEAD	10.5		0.0116	MDL	0.223	PQL	mg/Kg	J	Q
NICKEL	21.8		0.111	MDL	0.445	PQL	mg/Kg	J	Q, A
SILVER	0.0298	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	72.6		0.0245	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA5B-SB-4.0-5.0

Collected: 12/17/2010 3:08:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0445	MDL	0.445	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SB-4.0-5.0

Collected: 12/17/2010 3:08:00

Analysis Type: REA6

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.482		0.0557	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA5B-SB-9.0-10

Collected: 12/17/2010 3:19:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0835	J	0.0636	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	7.37		0.0636	MDL	0.424	PQL	mg/Kg	J	Q
CADMIUM	0.0665	J	0.0382	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	27.9		0.127	MDL	0.424	PQL	mg/Kg	J	Q
COBALT	6.61		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	10.8		0.0700	MDL	0.424	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS
Method:	6020
Matrix:	SO

Sample ID: SL-026-SA5B-SB-9.0-10

Collected: 12/17/2010 3:19:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	8.34		0.0110	MDL	0.212	PQL	mg/Kg	J	Q
NICKEL	14.6		0.106	MDL	0.424	PQL	mg/Kg	J	Q, A
SILVER	0.0313	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	49.0		0.0233	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA5B-SB-9.0-10

Collected: 12/17/2010 3:19:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0900	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SB-9.0-10

Collected: 12/17/2010 3:19:00

Analysis Type: REA6

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.407		0.0530	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-281-SA5B-SB-4.0-5.0

Collected: 12/17/2010 12:30:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.172	J	0.0710	MDL	0.237	PQL	mg/Kg	J	Z, Q
ARSENIC	9.29		0.0710	MDL	0.473	PQL	mg/Kg	J	Q
CADMIUM	0.304		0.0426	MDL	0.118	PQL	mg/Kg	J	Q
CHROMIUM	47.4		0.142	MDL	0.473	PQL	mg/Kg	J	Q
COBALT	11.1		0.0237	MDL	0.118	PQL	mg/Kg	J	A
COPPER	20.1		0.0781	MDL	0.473	PQL	mg/Kg	J	Q
LEAD	13.7		0.0123	MDL	0.237	PQL	mg/Kg	J	Q
NICKEL	23.4		0.118	MDL	0.473	PQL	mg/Kg	J	Q, A
SILVER	0.0599	J	0.0142	MDL	0.118	PQL	mg/Kg	J	Z
VANADIUM	79.5		0.0260	MDL	0.118	PQL	mg/Kg	J	Q

Sample ID: SL-281-SA5B-SB-4.0-5.0

Collected: 12/17/2010 12:30:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.197	J	0.0473	MDL	0.473	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-281-SA5B-SB-4.0-5.0

Collected: 12/17/2010 12:30:00

Analysis Type: REA6

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.552		0.0591	MDL	0.118	PQL	mg/Kg	J	Q

Sample ID: SL-281-SA5B-SB-8.0-9.0

Collected: 12/17/2010 12:37:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0766	J	0.0659	MDL	0.220	PQL	mg/Kg	J	Z, Q
ARSENIC	6.74		0.0659	MDL	0.439	PQL	mg/Kg	J	Q
CADMIUM	0.116		0.0395	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	27.0		0.132	MDL	0.439	PQL	mg/Kg	J	Q
COBALT	7.60		0.0220	MDL	0.110	PQL	mg/Kg	J	A
COPPER	9.54		0.0724	MDL	0.439	PQL	mg/Kg	J	Q
LEAD	8.13		0.0114	MDL	0.220	PQL	mg/Kg	J	Q
NICKEL	15.4		0.110	MDL	0.439	PQL	mg/Kg	J	Q, A
SILVER	0.0637	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	51.8		0.0241	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-281-SA5B-SB-8.0-9.0

Collected: 12/17/2010 12:37:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.171	J	0.0439	MDL	0.439	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA5B-SB-8.0-9.0

Collected: 12/17/2010 12:37:00

Analysis Type: REA6

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.819		0.0549	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-282-SA5B-SB-4.0-5.0

Collected: 12/17/2010 10:20:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0644	U	0.0644	MDL	0.215	PQL	mg/Kg	UJ	Q
ARSENIC	3.87		0.0644	MDL	0.429	PQL	mg/Kg	J	Q
CADMIUM	0.188		0.0386	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	19.8		0.129	MDL	0.429	PQL	mg/Kg	J	Q
COBALT	6.01		0.0215	MDL	0.107	PQL	mg/Kg	J	A
COPPER	9.66		0.0708	MDL	0.429	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-282-SA5B-SB-4.0-5.0

Collected: 12/17/2010 10:20:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	5.93		0.0112	MDL	0.215	PQL	mg/Kg	J	Q
NICKEL	12.7		0.107	MDL	0.429	PQL	mg/Kg	J	Q, A
SILVER	0.0388	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	38.9		0.0236	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-282-SA5B-SB-4.0-5.0

Collected: 12/17/2010 10:20:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0429	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SB-4.0-5.0

Collected: 12/17/2010 10:20:00

Analysis Type: REA6

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.664		0.0536	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-282-SA5B-SB-7.0-8.0

Collected: 12/17/2010 10:28:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.105	J	0.0632	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	4.22		0.0632	MDL	0.421	PQL	mg/Kg	J	Q
CADMIUM	0.229		0.0379	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	21.0		0.126	MDL	0.421	PQL	mg/Kg	J	Q
COBALT	6.15		0.0211	MDL	0.105	PQL	mg/Kg	J	A
COPPER	10.4		0.0695	MDL	0.421	PQL	mg/Kg	J	Q
LEAD	5.86		0.0110	MDL	0.211	PQL	mg/Kg	J	Q
NICKEL	13.3		0.105	MDL	0.421	PQL	mg/Kg	J	Q, A
SILVER	0.0361	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	39.3		0.0232	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-282-SA5B-SB-7.0-8.0

Collected: 12/17/2010 10:28:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.135	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-282-SA5B-SB-7.0-8.0

Collected: 12/17/2010 10:28:00

Analysis Type: REA6

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.748		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199

Matrix: AQ

Sample ID: EB01-SIV-121710

Collected: 12/17/2010 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	5.0	U	5.0	MDL	10.0	PQL	ug/L	UJ	H

Sample ID: EB05-SA5B-121710

Collected: 12/17/2010 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	5.0	U	5.0	MDL	10.0	PQL	ug/L	UJ	H

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: DUP08-SA5B-QC-121710

Collected: 12/17/2010 2:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.59	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SED-004-SIV-SD-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.25	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SED-006-SIV-SD-0.0-0.5

Collected: 12/17/2010 3:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.25	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SED-012-SIV-SD-0.0-0.5

Collected: 12/17/2010 10:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SED-014-SIV-SD-0.0-0.5

Collected: 12/17/2010 8:44:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SB-4.0-5.0

Collected: 12/17/2010 3:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SB-9.0-10

Collected: 12/17/2010 3:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA5B-SB-4.0-5.0

Collected: 12/17/2010 12:30:00

Analysis Type: RES

Dilution: 1 (1:1000) (1:1000)

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.59	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA5B-SB-8.0-9.0

Collected: 12/17/2010 12:37:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.65	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SB-4.0-5.0

Collected: 12/17/2010 10:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SB-7.0-8.0

Collected: 12/17/2010 10:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.57	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS
Method:	7199
Matrix:	SO

Method Category:	METALS
Method:	7471A
Matrix:	SO

Sample ID: DUP08-SA5B-QC-121710		Collected: 12/17/2010 2:07:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0498	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SED-004-SIV-SD-0.0-0.5		Collected: 12/17/2010 11:42:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0343	J	0.0033	MDL	0.114	PQL	mg/Kg	J	Z

Sample ID: SED-006-SIV-SD-0.0-0.5		Collected: 12/17/2010 3:25:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0233	J	0.0034	MDL	0.120	PQL	mg/Kg	J	Z

Sample ID: SED-012-SIV-SD-0.0-0.5		Collected: 12/17/2010 10:24:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0078	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SED-014-SIV-SD-0.0-0.5		Collected: 12/17/2010 8:44:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0209	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA5B-SB-4.0-5.0		Collected: 12/17/2010 12:30:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0092	J	0.0033	MDL	0.115	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA5B-SB-8.0-9.0		Collected: 12/17/2010 12:37:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0034	J	0.0032	MDL	0.113	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1625C

Matrix: SO

Sample ID: SL-026-SA5B-SB-9.0-10

Collected: 12/17/2010 3:19:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	19.3	J	18.2	MDL	36.4	PQL	ng/Kg	J	Z

Sample ID: SL-281-SA5B-SB-8.0-9.0

Collected: 12/17/2010 12:37:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	27.7	J	19.0	MDL	38.1	PQL	ng/Kg	J	Z

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: SL-026-SA5B-SB-4.0-5.0

Collected: 12/17/2010 3:08:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.1	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SB-9.0-10

Collected: 12/17/2010 3:19:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.5	U	5.5	MDL	14	PQL	mg/Kg	UJ	S
ETHYLENE GLYCOL	6.6	U	6.6	MDL	14	PQL	mg/Kg	UJ	S
Propylene glycol	8.7	U	8.7	MDL	14	PQL	mg/Kg	UJ	S

Sample ID: SL-026-SA5B-SB-9.0-10

Collected: 12/17/2010 3:19:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.2	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	1.1	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SB-7.0-8.0

Collected: 12/17/2010 10:28:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.0	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SED-001-SIV-SD-0.0-0.5

Collected: 12/17/2010 12:41:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.074	J	0.041	MDL	0.19	PQL	ug/Kg	J	Z

Sample ID: SED-004-SIV-SD-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
4,4'-DDE	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
4,4'-DDT	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
ALDRIN	0.082	U	0.082	MDL	0.21	PQL	ug/Kg	R	S
ALPHA-BHC	0.042	U	0.042	MDL	0.21	PQL	ug/Kg	R	S
BETA-BHC	0.074	U	0.074	MDL	0.21	PQL	ug/Kg	R	S
Chlordane	0.99	U	0.99	MDL	4.2	PQL	ug/Kg	R	S
DELTA-BHC	0.045	U	0.045	MDL	0.21	PQL	ug/Kg	R	S
DIELDRIN	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
ENDOSULFAN I	0.054	U	0.054	MDL	0.21	PQL	ug/Kg	R	S
ENDOSULFAN II	0.14	U	0.14	MDL	0.42	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
ENDRIN	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
ENDRIN KETONE	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.042	U	0.042	MDL	0.21	PQL	ug/Kg	R	S
HEPTACHLOR	0.074	U	0.074	MDL	0.21	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.042	U	0.042	MDL	0.21	PQL	ug/Kg	R	S
METHOXYCHLOR	0.42	U	0.42	MDL	2.1	PQL	ug/Kg	R	S
MIREX	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
TOXAPHENE	2.7	U	2.7	MDL	8.2	PQL	ug/Kg	R	S

Sample ID: SED-006-SIV-SD-0.0-0.5

Collected: 12/17/2010 3:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	1.3	U	1.3	MDL	1.3	PQL	ug/Kg	UJ	S
4,4'-DDE	1.0	U	1.0	MDL	1.0	PQL	ug/Kg	UJ	S
4,4'-DDT	1.2	U	1.2	MDL	1.2	PQL	ug/Kg	UJ	S
ALDRIN	0.082	U	0.082	MDL	0.21	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.080	U	0.080	MDL	0.21	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SED-006-SIV-SD-0.0-0.5

Collected: 12/17/2010 3:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.075	U	0.075	MDL	0.21	PQL	ug/Kg	UJ	S
Chlordane	4.1	U	4.1	MDL	4.2	PQL	ug/Kg	UJ	S
DELTA-BHC	0.14	J	0.045	MDL	0.21	PQL	ug/Kg	J	Z, S
DIELDRIN	0.50	U	0.50	MDL	0.50	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.43	U	0.43	MDL	0.43	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.31	U	0.31	MDL	0.42	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.11	U	0.11	MDL	0.42	PQL	ug/Kg	UJ	S
ENDRIN	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.36	U	0.36	MDL	0.42	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.042	U	0.042	MDL	0.21	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.075	U	0.075	MDL	0.21	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.072	U	0.072	MDL	0.21	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.42	U	0.42	MDL	2.1	PQL	ug/Kg	UJ	S
MIREX	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
TOXAPHENE	2.7	U	2.7	MDL	8.2	PQL	ug/Kg	UJ	S

Sample ID: SED-012-SIV-SD-0.0-0.5

Collected: 12/17/2010 10:24:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.35	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z
DIELDRIN	0.12	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z

Sample ID: SED-014-SIV-SD-0.0-0.5

Collected: 12/17/2010 8:44:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.11	J	0.042	MDL	0.20	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: AQ

Sample ID: EB01-SIV-121710

Collected: 12/17/2010 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: AQ

Sample ID: EB01-SIV-121710

Collected: 12/17/2010 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	L
Aroclor 5460	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	L

Sample ID: EB05-SA5B-121710

Collected: 12/17/2010 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L
Aroclor 5442	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L
Aroclor 5460	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: DUP08-SA5B-QC-121710

Collected: 12/17/2010 2:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	11		1.1	MDL	3.7	PQL	ug/Kg	J	L

Sample ID: SED-001-SIV-SD-0.0-0.5

Collected: 12/17/2010 12:41:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	43		0.75	MDL	3.9	PQL	ug/Kg	J	S
AROCLOR 1260	18		0.75	MDL	3.9	PQL	ug/Kg	J	S
Aroclor 5432	2.3	U	2.3	MDL	7.5	PQL	ug/Kg	UJ	L
Aroclor 5442	2.3	U	2.3	MDL	7.5	PQL	ug/Kg	UJ	L
Aroclor 5460	8.2		2.3	MDL	7.5	PQL	ug/Kg	J	S, L

Sample ID: SED-004-SIV-SD-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	4.1	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	4.1	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	4.1	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SED-006-SIV-SD-0.0-0.5

Collected: 12/17/2010 3:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	4.1	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	4.1	PQL	ug/Kg	UJ	L
Aroclor 5460	7.6		1.2	MDL	4.1	PQL	ug/Kg	J	L

Sample ID: SED-012-SIV-SD-0.0-0.5

Collected: 12/17/2010 10:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SED-014-SIV-SD-0.0-0.5

Collected: 12/17/2010 8:44:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.9	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5432	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5460	4.8		1.2	MDL	3.9	PQL	ug/Kg	J	L

Sample ID: SL-026-SA5B-SB-4.0-5.0

Collected: 12/17/2010 3:08:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.49	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-026-SA5B-SB-9.0-10

Collected: 12/17/2010 3:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-281-SA5B-SB-4.0-5.0

Collected: 12/17/2010 12:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.52	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5432	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L

Sample ID: SL-281-SA5B-SB-8.0-9.0

Collected: 12/17/2010 12:37:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.71	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L

Sample ID: SL-282-SA5B-SB-4.0-5.0

Collected: 12/17/2010 10:20:00

Analysis Type: RES

Dilution: 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	55	U	55	MDL	180	PQL	ug/Kg	UJ	L
Aroclor 5442	55	U	55	MDL	180	PQL	ug/Kg	UJ	L
Aroclor 5460	55	U	55	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-282-SA5B-SB-7.0-8.0

Collected: 12/17/2010 10:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.62	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: DUP08-SA5B-QC-121710

Collected: 12/17/2010 2:07:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SED-001-SIV-SD-0.0-0.5

Collected: 12/17/2010 12:41:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.91	U	0.91	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SED-004-SIV-SD-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.99	U	0.99	MDL	3.0	PQL	ug/Kg	R	L

Sample ID: SED-006-SIV-SD-0.0-0.5

Collected: 12/17/2010 3:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.78	J	0.50	MDL	1.5	PQL	ug/Kg	J	Z
DICHLOROPROP	2.0	J	1.0	MDL	2.1	PQL	ug/Kg	J	Z
DINOSEB	1.0	U	1.0	MDL	3.0	PQL	ug/Kg	R	L

Sample ID: SED-012-SIV-SD-0.0-0.5

Collected: 12/17/2010 10:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.77	J	0.42	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L
MCPP	240	J	80	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SED-014-SIV-SD-0.0-0.5

Collected: 12/17/2010 8:44:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.94	U	0.94	MDL	2.8	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C

Matrix: AQ

Sample ID: EB01-SIV-121710

Collected: 12/17/2010 12:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3-DICHLOROBENZENE	1	U	1	MDL	5	PQL	ug/L	UJ	L
1,4-DICHLOROBENZENE	1	U	1	MDL	5	PQL	ug/L	UJ	L
4-CHLOROANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8270C	Matrix:	AQ

Sample ID: EB01-SIV-121710 Collected: 12/17/2010 12:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	E
BENZIDINE	20	U	20	MDL	59	PQL	ug/L	UJ	E
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E
HEXACHLOROCYCLOPENTADIENE	5	U	5	MDL	15	PQL	ug/L	UJ	E

Sample ID: EB05-SA5B-121710 Collected: 12/17/2010 12:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3-DICHLOROBENZENE	1	U	1	MDL	5	PQL	ug/L	UJ	L
1,4-DICHLOROBENZENE	1	U	1	MDL	5	PQL	ug/L	UJ	L
4-CHLOROANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	E
ANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	E
BENZIDINE	20	U	20	MDL	60	PQL	ug/L	UJ	E
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E
HEXACHLOROCYCLOPENTADIENE	5	U	5	MDL	15	PQL	ug/L	UJ	E

Method Category:	SVOA		
Method:	8270C SIM	Matrix:	AQ

Sample ID: EB01-SIV-121710 Collected: 12/17/2010 12:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
BENZO(G,H,I)PERYLENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	0.29	J	0.052	MDL	1.0	PQL	ug/L	U	B
DIBENZO(A,H)ANTHRACENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
Diethylphthalate	0.054	J	0.052	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.23	J	0.052	MDL	1.0	PQL	ug/L	U	B
INDENO(1,2,3-CD)PYRENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
NAPHTHALENE	0.051	J	0.010	MDL	0.052	PQL	ug/L	J	Z, L
N-NITROSODIMETHYLAMINE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
PHENANTHRENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: AQ

Sample ID: EB05-SA5B-121710

Collected: 12/17/2010 12:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.010	U	0.010	MDL	0.051	PQL	ug/L	UJ	L
BENZO(G,H,I)PERYLENE	0.010	U	0.010	MDL	0.051	PQL	ug/L	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	0.33	J	0.051	MDL	1.0	PQL	ug/L	U	B
DIBENZO(A,H)ANTHRACENE	0.010	U	0.010	MDL	0.051	PQL	ug/L	UJ	L
Diethylphthalate	0.11	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.50	J	0.051	MDL	1.0	PQL	ug/L	U	B
INDENO(1,2,3-CD)PYRENE	0.010	U	0.010	MDL	0.051	PQL	ug/L	UJ	L
NAPHTHALENE	0.029	J	0.010	MDL	0.051	PQL	ug/L	J	Z, L
N-NITROSODIMETHYLAMINE	0.010	U	0.010	MDL	0.051	PQL	ug/L	UJ	L
PHENANTHRENE	0.010	U	0.010	MDL	0.051	PQL	ug/L	UJ	L

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: DUP08-SA5B-QC-121710

Collected: 12/17/2010 2:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.94	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.82	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.6	J	6.7	MDL	20	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SED-001-SIV-SD-0.0-0.5

Collected: 12/17/2010 12:41:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.8	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	0.63	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.96	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.77	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.1	J	6.8	MDL	20	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SED-004-SIV-SD-0.0-0.5

Collected: 12/17/2010 11:42:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	8.2	J	7.4	MDL	22	PQL	ug/Kg	J	Z

Sample ID: SED-006-SIV-SD-0.0-0.5

Collected: 12/17/2010 3:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.55	J	0.42	MDL	2.1	PQL	ug/Kg	J	Z
ANTHRACENE	0.83	J	0.42	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.5	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.7	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.7	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
Butylbenzylphthalate	13	J	7.5	MDL	22	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.0	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z

Sample ID: SED-012-SIV-SD-0.0-0.5

Collected: 12/17/2010 10:24:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.95	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.82	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.89	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	13	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Butylbenzylphthalate	12	J	6.4	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	1.5	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SED-014-SIV-SD-0.0-0.5

Collected: 12/17/2010 8:44:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.2	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.2	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	18	J	7.1	MDL	21	PQL	ug/Kg	J	Z
Butylbenzylphthalate	11	J	7.1	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SED-014-SIV-SD-0.0-0.5

Collected: 12/17/2010 8:44:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	1.9	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
FLUORENE	1.9	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.91	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	0.98	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-026-SA5B-SB-4.0-5.0

Collected: 12/17/2010 3:08:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-026-SA5B-SB-9.0-10

Collected: 12/17/2010 3:19:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.9	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-281-SA5B-SB-4.0-5.0

Collected: 12/17/2010 12:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	7.2	MDL	22	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.1	J	7.2	MDL	22	PQL	ug/Kg	J	Z
NAPHTHALENE	0.84	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-282-SA5B-SB-4.0-5.0

Collected: 12/17/2010 10:20:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.1	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.2	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-282-SA5B-SB-7.0-8.0

Collected: 12/17/2010 10:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.6	J	6.6	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	14	J	6.6	MDL	20	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	VOA
Method:	8015B
Matrix:	SO

Sample ID: SL-026-SA5B-SB-4.0-5.0		Collected: 12/17/2010 3:08:00		Analysis Type: REA4		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	240	J	110	MDL	560	PQL	ug/Kg	J	Z

Sample ID: SL-026-SA5B-SB-9.0-10		Collected: 12/17/2010 3:19:00		Analysis Type: REA4		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	220	J	110	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-281-SA5B-SB-4.0-5.0		Collected: 12/17/2010 12:30:00		Analysis Type: REA4		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	550	J	120	MDL	600	PQL	ug/Kg	J	Z

Sample ID: SL-282-SA5B-SB-7.0-8.0		Collected: 12/17/2010 10:28:00		Analysis Type: REA4		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	330	J	110	MDL	550	PQL	ug/Kg	J	Z

Method Category:	VOA
Method:	8260B
Matrix:	SO

Sample ID: SL-026-SA5B-SB-4.0-5.0		Collected: 12/17/2010 3:08:00		Analysis Type: RES		Dilution: 1.04			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.93	J	0.28	MDL	4.7	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.09	MDL	4.7	PQL	ug/Kg	U	B

Sample ID: SL-026-SA5B-SB-9.0-10		Collected: 12/17/2010 3:19:00		Analysis Type: RES		Dilution: 0.89			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.62	J	0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.08	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-281-SA5B-SB-4.0-5.0

Collected: 12/17/2010 12:30:00

Analysis Type: RES

Dilution: 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.73	J	0.27	MDL	4.5	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.09	MDL	4.5	PQL	ug/Kg	U	B

Sample ID: SL-281-SA5B-SB-8.0-9.0

Collected: 12/17/2010 12:37:00

Analysis Type: RES

Dilution: 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	7.4	J	1.4	MDL	9.3	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.81	J	0.28	MDL	4.6	PQL	ug/Kg	U	B
TOLUENE	0.16	J	0.09	MDL	4.6	PQL	ug/Kg	U	B

Sample ID: SL-282-SA5B-SB-4.0-5.0

Collected: 12/17/2010 10:20:00

Analysis Type: RES

Dilution: 0.93

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.96	J	0.24	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.13	J	0.08	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-282-SA5B-SB-7.0-8.0

Collected: 12/17/2010 10:28:00

Analysis Type: RES

Dilution: 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	5.8	J	1.2	MDL	7.9	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.85	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.12	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE045

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: DE045_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Preparation Method: Gen Prep

Matrix: AQ

Sample ID	Type	Actual	Criteria	Units	Flag
EB01-SIV-121710 (RES)	Sampling To Analysis	25.00	24.00	HOURS	J (all detects)
EB05-SA5B-121710 (RES)		25.00	24.00	HOURS	UJ (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: DE045_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35548CB221648	12/23/2010 4:48:00 PM	MAGNESIUM	0.0421 mg/L	EB01-SIV-121710 EB05-SA5B-121710
P35548CB222358	12/22/2010 11:58:00 PM	CALCIUM	0.0960 mg/L	EB01-SIV-121710 EB05-SA5B-121710

Method: 6010B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35708EB221714	12/30/2010 5:14:00 PM	ALUMINUM CALCIUM IRON PHOSPHORUS STRONTIUM TIN	16.5 mg/Kg 13.9 mg/Kg 6.65 mg/Kg 1.41 mg/Kg 0.0782 mg/Kg 1.13 mg/Kg	DUP08-SA5B-QC-121710 SED-001-SIV-SD-0.0-0.5 SED-004-SIV-SD-0.0-0.5 SED-006-SIV-SD-0.0-0.5 SED-012-SIV-SD-0.0-0.5 SED-014-SIV-SD-0.0-0.5 SL-026-SA5B-SB-4.0-5.0 SL-026-SA5B-SB-9.0-10 SL-281-SA5B-SB-4.0-5.0 SL-281-SA5B-SB-8.0-9.0 SL-282-SA5B-SB-4.0-5.0 SL-282-SA5B-SB-7.0-8.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP08-SA5B-QC-121710(REA2)	TIN	3.06 mg/Kg	3.08U mg/Kg
SED-001-SIV-SD-0.0-0.5(REA2)	TIN	2.27 mg/Kg	2.27U mg/Kg
SED-004-SIV-SD-0.0-0.5(REA2)	TIN	2.30 mg/Kg	2.30U mg/Kg
SED-006-SIV-SD-0.0-0.5(REA2)	TIN	2.79 mg/Kg	2.79U mg/Kg
SED-012-SIV-SD-0.0-0.5(REA2)	TIN	2.05 mg/Kg	2.05U mg/Kg
SED-014-SIV-SD-0.0-0.5(REA2)	TIN	2.99 mg/Kg	2.99U mg/Kg
SL-026-SA5B-SB-4.0-5.0(REA2)	TIN	2.43 mg/Kg	2.43U mg/Kg
SL-026-SA5B-SB-9.0-10(REA2)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-281-SA5B-SB-4.0-5.0(REA2)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-281-SA5B-SB-8.0-9.0(REA2)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-282-SA5B-SB-4.0-5.0(REA2)	TIN	1.98 mg/Kg	1.98U mg/Kg
SL-282-SA5B-SB-7.0-8.0(REA2)	TIN	2.05 mg/Kg	2.05U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: DE045_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020 Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35726BB220955A	1/3/2011 9:55:00 AM	COPPER LEAD NICKEL ZINC	0.203 mg/Kg 0.0114 mg/Kg 0.121 mg/Kg 0.601 mg/Kg	DUP08-SA5B-QC-121710 SED-001-SIV-SD-0.0-0.5 SED-004-SIV-SD-0.0-0.5 SED-006-SIV-SD-0.0-0.5 SED-012-SIV-SD-0.0-0.5 SED-014-SIV-SD-0.0-0.5 SL-026-SA5B-SB-4.0-5.0 SL-026-SA5B-SB-9.0-10 SL-281-SA5B-SB-4.0-5.0 SL-281-SA5B-SB-8.0-9.0 SL-282-SA5B-SB-4.0-5.0 SL-282-SA5B-SB-7.0-8.0

Method: 8260B Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB22B212231A	12/20/2010 10:31:00 PM	METHYLENE CHLORIDE TOLUENE	0.50 ug/Kg 0.11 ug/Kg	SL-026-SA5B-SB-4.0-5.0 SL-026-SA5B-SB-9.0-10 SL-281-SA5B-SB-4.0-5.0 SL-281-SA5B-SB-8.0-9.0 SL-282-SA5B-SB-4.0-5.0 SL-282-SA5B-SB-7.0-8.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-026-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.93 ug/Kg	4.7U ug/Kg
SL-026-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.15 ug/Kg	4.7U ug/Kg
SL-026-SA5B-SB-9.0-10(RES)	METHYLENE CHLORIDE	0.62 ug/Kg	3.9U ug/Kg
SL-026-SA5B-SB-9.0-10(RES)	TOLUENE	0.08 ug/Kg	3.9U ug/Kg
SL-281-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.73 ug/Kg	4.5U ug/Kg
SL-281-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.11 ug/Kg	4.5U ug/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	METHYLENE CHLORIDE	0.81 ug/Kg	4.6U ug/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	TOLUENE	0.16 ug/Kg	4.6U ug/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.96 ug/Kg	4.1U ug/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.13 ug/Kg	4.1U ug/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	METHYLENE CHLORIDE	0.85 ug/Kg	4.0U ug/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	TOLUENE	0.12 ug/Kg	4.0U ug/Kg

Method: 8270C SIM Matrix: AQ				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWI35B260727	1/5/2011 7:27:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Butylbenzylphthalate Di-n-butylphthalate Di-n-octylphthalate	0.19 ug/L 0.099 ug/L 0.16 ug/L 0.18 ug/L	EB01-SIV-121710 EB05-SA5B-121710

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/19/2011 3:09:21 PM

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Method Blank Outlier Report

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: DE045_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB01-SIV-121710(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.29 ug/L	1.0U ug/L
EB01-SIV-121710(RES)	Di-n-butylphthalate	0.23 ug/L	1.0U ug/L
EB05-SA5B-121710(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.33 ug/L	1.0U ug/L
EB05-SA5B-121710(RES)	Di-n-butylphthalate	0.50 ug/L	1.0U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: DE045_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-026-SA5B-SB-4.0-5.0MS (SL-026-SA5B-SB-4.0-5.0 SL-026-SA5B-SB-9.0-10)	FLUORIDE	64	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
DUP08-SA5B-QC-121710MS DUP08-SA5B-QC-121710MSD (DUP08-SA5B-QC-121710)	DICAMBA DICHLOROPROP	145 187	- 158	33.00-120.00 55.00-141.00	- -	DICAMBA DICHLOROPROP	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03552AQ240840A P03552AY240822A (EB01-SIV-121710 EB05-SA5B-121710)	Aroclor 5442	44	44	75.00-125.00	-	Aroclor 5432, 5442, 5460	J (all detects) UJ (all non-detects)

Method: 8270C SIM

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P4WILCSQ280758 P4WILCSY260830 (EB01-SIV-121710 EB05-SA5B-121710)	2-METHYLNAPHTHALENE BENZO(G,H,I)PERYLENE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE NAPHTHALENE N-NITROSODIMETHYLAMINE PHENANTHRENE	69 62 60 60 - 54 72	67 - 65 66 71 53 73	75.00-115.00 68.00-125.00 71.00-125.00 69.00-124.00 72.00-109.00 70.00-130.00 76.00-111.00	- - - - - - -	2-METHYLNAPHTHALENE BENZO(G,H,I)PERYLENE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE NAPHTHALENE N-NITROSODIMETHYLAMINE PHENANTHRENE	J (all detects) UJ (all non-detects)

Method: 8270C

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P4WMLCSQ260623 P4WMLCSY260649 (EB01-SIV-121710 EB05-SA5B-121710)	1,3-DICHLORO BENZENE 1,4-DICHLORO BENZENE 4-CHLOROANILINE ANILINE BENZIDINE BENZOIC ACID HEXACHLOROCYCLOPENTADI	62 64 - - - - -	- - - - - - -	63.00-110.00 65.00-113.00 42.00-124.00 49.00-101.00 20.00-109.00 10.00-69.00 10.00-118.00	- - 40 (30.00) 39 (30.00) 44 (30.00) 67 (30.00) 40 (30.00)	1,3-DICHLORO BENZENE 1,4-DICHLORO BENZENE 4-CHLOROANILINE ANILINE BENZIDINE BENZOIC ACID HEXACHLOROCYCLOPENTAD	J (all detects) UJ (all non-detects)

Method: 8260B

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSY53Q211359A LCSY53Y211420A (TB-121710)	1,2-DIBROMO-3-CHLOROPROP 2-BUTANONE (MEK) 2-HEXANONE	124 157 146	- 152 143	68.00-120.00 66.00-151.00 65.00-136.00	- - -	1,2-DIBROMO-3-CHLOROPRO 2-BUTANONE (MEK) 2-HEXANONE	J (all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03613AQ240200A P03613AY240141A (DUP08 -SA5B -QC-121710 SED -001-SIV-SD-0.0-0.5 SED -004-SIV-SD-0.0-0.5 SED -008-SIV-SD-0.0-0.5 SED -012-SIV-SD-0.0-0.5 SED -014-SIV-SD-0.0-0.5 SL -026-SA5B-SB-4.0-5.0 SL -026-SA5B-SB-9.0-10 SL -281-SA5B-SB-4.0-5.0 SL -281-SA5B-SB-8.0-9.0 SL -282-SA5B-SB-4.0-5.0 SL -282-SA5B-SB-7.0-8.0)	Aroclor 5442	68	71	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03623AQ240355A (DUP08 -SA5B -QC-121710 SED -001-SIV-SD-0.0-0.5 SED -004-SIV-SD-0.0-0.5 SED -006-SIV-SD-0.0-0.5 SED -012-SIV-SD-0.0-0.5 SED -014-SIV-SD-0.0-0.5)	DINOSEB	6	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P35726BQ220958A (DUP08 -SA5B -QC-121710 SED -001-SIV-SD-0.0-0.5 SED -004-SIV-SD-0.0-0.5 SED -006-SIV-SD-0.0-0.5 SED -012-SIV-SD-0.0-0.5 SED -014-SIV-SD-0.0-0.5 SL -026-SA5B-SB-4.0-5.0 SL -026-SA5B-SB-9.0-10 SL -281-SA5B-SB-4.0-5.0 SL -281-SA5B-SB-8.0-9.0 SL -282-SA5B-SB-4.0-5.0 SL -282-SA5B-SB-7.0-8.0)	ANTIMONY	63	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: PrepDE045_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015M

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-026-SA5B-SB-9.0-10	TETRAMETHYLENE GLYCOL	27	29.00-137.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8081A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP08-SA5B-QC-121710	DECACHLOROBIPHENYL	227	20.00-120.00	All Target Analytes	No Qual Diluted Out
SED-004-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SED-004-SIV-SD-0.0-0.5	TETRACHLORO-M-XYLENE	11	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SED-006-SIV-SD-0.0-0.5	TETRACHLORO-M-XYLENE	47	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-001-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	150	45.00-120.00	All Target Analytes	J(all detects)
SED-012-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	136	45.00-120.00	All Target Analytes	J(all detects)
SL-026-SA5B-SB-9.0-10	DECACHLOROBIPHENYL	126	45.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: DE045_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB01-SIV-121710	BIS(2-ETHYLHEXYL)PHthalATE	J	0.29	1.0	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.054	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.23	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.051	0.052	PQL	ug/L	
EB05-SA5B-121710	BIS(2-ETHYLHEXYL)PHthalATE	J	0.33	1.0	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.11	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.50	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.029	0.051	PQL	ug/L	

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5B-SB-9.0-10	N-NITROSODIMETHYLAMINE	J	19.3	36.4	PQL	ng/Kg	J (all detects)
SL-281-SA5B-SB-8.0-9.0	N-NITROSODIMETHYLAMINE	J	27.7	38.1	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-014-SIV-SD-0.0-0.5	FLUORIDE	J	1.1	1.2	PQL	mg/Kg	J (all detects)
SL-026-SA5B-SB-4.0-5.0	Nitrate-NO3	J	1.1	1.7	PQL	mg/Kg	J (all detects)
SL-281-SA5B-SB-4.0-5.0	Nitrate-NO3	J	1.2	1.8	PQL	mg/Kg	J (all detects)
SL-281-SA5B-SB-8.0-9.0	Nitrate-NO3	J	1.4	1.7	PQL	mg/Kg	J (all detects)
SL-282-SA5B-SB-4.0-5.0	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)
SL-282-SA5B-SB-7.0-8.0	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA5B-QC-121710	TIN	J	3.08	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.80	5.34	PQL	mg/Kg	
SED-001-SIV-SD-0.0-0.5	SODIUM	J	110	112	PQL	mg/Kg	J (all detects)
	TIN	J	2.27	11.2	PQL	mg/Kg	
	Zirconium	J	4.21	5.58	PQL	mg/Kg	
SED-004-SIV-SD-0.0-0.5	TIN	J	2.30	12.4	PQL	mg/Kg	J (all detects)
SED-006-SIV-SD-0.0-0.5	SODIUM	J	113	120	PQL	mg/Kg	J (all detects)
	TIN	J	2.79	12.0	PQL	mg/Kg	
SED-012-SIV-SD-0.0-0.5	SODIUM	J	78.1	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.05	10.6	PQL	mg/Kg	
	Zirconium	J	1.57	5.31	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: DE045_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-014-SIV-SD-0.0-0.5	SODIUM	J	101	116	PQL	mg/Kg	J (all detects)
	TIN	J	2.99	11.6	PQL	mg/Kg	
	Zirconium	J	2.40	5.82	PQL	mg/Kg	
SL-026-SA5B-SB-4.0-5.0	TIN	J	2.43	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.01	5.57	PQL	mg/Kg	
SL-026-SA5B-SB-9.0-10	BORON	J	4.31	5.30	PQL	mg/Kg	J (all detects)
	TIN	J	2.36	10.6	PQL	mg/Kg	
	Zirconium	J	2.87	5.30	PQL	mg/Kg	
SL-281-SA5B-SB-4.0-5.0	TIN	J	2.56	11.8	PQL	mg/Kg	J (all detects)
SL-281-SA5B-SB-8.0-9.0	TIN	J	2.56	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.12	5.71	PQL	mg/Kg	
SL-282-SA5B-SB-4.0-5.0	BORON	J	4.55	5.36	PQL	mg/Kg	J (all detects)
	SODIUM	J	59.8	107	PQL	mg/Kg	
	TIN	J	1.98	10.7	PQL	mg/Kg	
	Zirconium	J	2.33	5.36	PQL	mg/Kg	
SL-282-SA5B-SB-7.0-8.0	BORON	J	5.08	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	83.3	105	PQL	mg/Kg	
	TIN	J	2.05	10.5	PQL	mg/Kg	
	Zirconium	J	2.99	5.27	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA5B-QC-121710	ANTIMONY	J	0.113	0.220	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.266	0.440	PQL	mg/Kg	
SED-001-SIV-SD-0.0-0.5	ANTIMONY	J	0.118	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.230	0.442	PQL	mg/Kg	
	SILVER	J	0.0983	0.110	PQL	mg/Kg	
SED-004-SIV-SD-0.0-0.5	ANTIMONY	J	0.113	0.240	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0368	0.120	PQL	mg/Kg	
SED-006-SIV-SD-0.0-0.5	ANTIMONY	J	0.174	0.245	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.193	0.490	PQL	mg/Kg	
	SILVER	J	0.0845	0.122	PQL	mg/Kg	
SED-012-SIV-SD-0.0-0.5	ANTIMONY	J	0.100	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.172	0.404	PQL	mg/Kg	
	SILVER	J	0.0246	0.101	PQL	mg/Kg	
SED-014-SIV-SD-0.0-0.5	ANTIMONY	J	0.101	0.231	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.239	0.461	PQL	mg/Kg	
	SILVER	J	0.0350	0.115	PQL	mg/Kg	
SL-026-SA5B-SB-4.0-5.0	ANTIMONY	J	0.137	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.115	0.445	PQL	mg/Kg	
	SILVER	J	0.0298	0.111	PQL	mg/Kg	
SL-026-SA5B-SB-9.0-10	ANTIMONY	J	0.0835	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0665	0.106	PQL	mg/Kg	
	SELENIUM	J	0.0900	0.424	PQL	mg/Kg	
	SILVER	J	0.0313	0.106	PQL	mg/Kg	
SL-281-SA5B-SB-4.0-5.0	ANTIMONY	J	0.172	0.237	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.197	0.473	PQL	mg/Kg	
	SILVER	J	0.0599	0.118	PQL	mg/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Page 2 of 6

Reporting Limit Outliers

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: DE045_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-281-SA5B-SB-8.0-9.0	ANTIMONY	J	0.0766	0.220	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.171	0.439	PQL	mg/Kg	
	SILVER	J	0.0637	0.110	PQL	mg/Kg	
SL-282-SA5B-SB-4.0-5.0	SELENIUM	J	0.127	0.429	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0388	0.107	PQL	mg/Kg	
SL-282-SA5B-SB-7.0-8.0	ANTIMONY	J	0.105	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.135	0.421	PQL	mg/Kg	
	SILVER	J	0.0361	0.105	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA5B-QC-121710	HEXAVALENT CHROMIUM	J	0.59	1.1	PQL	mg/Kg	J (all detects)
SED-004-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.37	1.2	PQL	mg/Kg	J (all detects)
SED-006-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.35	1.2	PQL	mg/Kg	J (all detects)
SED-012-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.56	1.1	PQL	mg/Kg	J (all detects)
SED-014-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.32	1.2	PQL	mg/Kg	J (all detects)
SL-026-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.40	1.1	PQL	mg/Kg	J (all detects)
SL-026-SA5B-SB-9.0-10	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-281-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.59	1.2	PQL	mg/Kg	J (all detects)
SL-281-SA5B-SB-8.0-9.0	HEXAVALENT CHROMIUM	J	0.65	1.1	PQL	mg/Kg	J (all detects)
SL-282-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)
SL-282-SA5B-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.57	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA5B-QC-121710	MERCURY	J	0.0498	0.107	PQL	mg/Kg	J (all detects)
SED-004-SIV-SD-0.0-0.5	MERCURY	J	0.0343	0.114	PQL	mg/Kg	J (all detects)
SED-006-SIV-SD-0.0-0.5	MERCURY	J	0.0233	0.120	PQL	mg/Kg	J (all detects)
SED-012-SIV-SD-0.0-0.5	MERCURY	J	0.0078	0.101	PQL	mg/Kg	J (all detects)
SED-014-SIV-SD-0.0-0.5	MERCURY	J	0.0209	0.111	PQL	mg/Kg	J (all detects)
SL-281-SA5B-SB-4.0-5.0	MERCURY	J	0.0092	0.115	PQL	mg/Kg	J (all detects)
SL-281-SA5B-SB-8.0-9.0	MERCURY	J	0.0034	0.113	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: DE045_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5B-SB-4.0-5.0	METHANOL	J	240	560	PQL	ug/Kg	J (all detects)
SL-026-SA5B-SB-9.0-10	METHANOL	J	220	550	PQL	ug/Kg	J (all detects)
SL-281-SA5B-SB-4.0-5.0	METHANOL	J	550	600	PQL	ug/Kg	J (all detects)
SL-282-SA5B-SB-7.0-8.0	METHANOL	J	330	550	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5B-SB-4.0-5.0	EFH (C15-C20)	J	1.1	1.3	PQL	mg/Kg	J (all detects)
SL-026-SA5B-SB-9.0-10	EFH (C21-C30)	J	1.2	1.3	PQL	mg/Kg	J (all detects)
	EFH (C30-C40)	J	1.1	1.3	PQL	mg/Kg	
SL-282-SA5B-SB-7.0-8.0	EFH (C30-C40)	J	1.0	1.3	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-001-SIV-SD-0.0-0.5	DELTA-BHC	J	0.074	0.19	PQL	ug/Kg	J (all detects)
SED-006-SIV-SD-0.0-0.5	DELTA-BHC	J	0.14	0.21	PQL	ug/Kg	J (all detects)
SED-012-SIV-SD-0.0-0.5	4,4'-DDD	J	0.35	0.36	PQL	ug/Kg	J (all detects)
	DIELDRIN	J	0.12	0.36	PQL	ug/Kg	
SED-014-SIV-SD-0.0-0.5	DELTA-BHC	J	0.11	0.20	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-014-SIV-SD-0.0-0.5	AROCOR 1260	J	1.9	2.0	PQL	ug/Kg	J (all detects)
SL-026-SA5B-SB-4.0-5.0	AROCOR 1254	J	0.49	1.9	PQL	ug/Kg	J (all detects)
SL-281-SA5B-SB-4.0-5.0	AROCOR 1254	J	0.52	2.0	PQL	ug/Kg	J (all detects)
SL-281-SA5B-SB-8.0-9.0	AROCOR 1254	J	0.71	1.9	PQL	ug/Kg	J (all detects)
SL-282-SA5B-SB-7.0-8.0	AROCOR 1254	J	0.62	1.9	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: DE045_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-006-SIV-SD-0.0-0.5	DICAMBA	J	0.78	1.5	PQL	ug/Kg	J (all detects)
	DICHLOROPROP	J	2.0	2.1	PQL	ug/Kg	
SED-012-SIV-SD-0.0-0.5	DICAMBA	J	0.77	1.3	PQL	ug/Kg	J (all detects)
	MCPP	J	240	270	PQL	ug/Kg	

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.93	4.7	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.15	4.7	PQL	ug/Kg	
SL-026-SA5B-SB-9.0-10	METHYLENE CHLORIDE	J	0.62	3.9	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.08	3.9	PQL	ug/Kg	
SL-281-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.73	4.5	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.11	4.5	PQL	ug/Kg	
SL-281-SA5B-SB-8.0-9.0	2-BUTANONE (MEK)	J	7.4	9.3	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.81	4.6	PQL	ug/Kg	
	TOLUENE	J	0.16	4.6	PQL	ug/Kg	
SL-282-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.96	4.1	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.13	4.1	PQL	ug/Kg	
SL-282-SA5B-SB-7.0-8.0	2-BUTANONE (MEK)	J	5.8	7.9	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.85	4.0	PQL	ug/Kg	
	TOLUENE	J	0.12	4.0	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA5B-QC-121710	1-METHYLNAPHTHALENE	J	0.94	1.9	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	0.82	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.6	20	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.3	1.9	PQL	ug/Kg	
SED-001-SIV-SD-0.0-0.5	1-METHYLNAPHTHALENE	J	1.8	1.9	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.63	1.9	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.3	1.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.96	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.77	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.1	20	PQL	ug/Kg	
SED-004-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.2	22	PQL	ug/Kg	J (all detects)
SED-006-SIV-SD-0.0-0.5	ACENAPHTHYLENE	J	0.55	2.1	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.83	2.1	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.5	2.1	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.7	2.1	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	2.1	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.7	2.1	PQL	ug/Kg	
	Butylbenzylphthalate	J	13	22	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.0	2.1	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE045

Laboratory: LL

EDD Filename: DE045_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-012-SIV-SD-0.0-0.5	BENZO(A)ANTHRACENE	J	0.95	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.82	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.89	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	19	PQL	ug/Kg	
	Butylbenzylphthalate	J	12	19	PQL	ug/Kg	
	CHRYSENE	J	1.5	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.8	PQL	ug/Kg	
SED-014-SIV-SD-0.0-0.5	BENZO(A)ANTHRACENE	J	1.2	2.0	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.2	2.0	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	2.0	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	2.0	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	21	PQL	ug/Kg	
	Butylbenzylphthalate	J	11	21	PQL	ug/Kg	
	CHRYSENE	J	1.9	2.0	PQL	ug/Kg	
	FLUORENE	J	1.9	2.0	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.91	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	0.98	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	2.0	PQL	ug/Kg	
SL-026-SA5B-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	20	PQL	ug/Kg	J (all detects)
SL-026-SA5B-SB-9.0-10	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.9	20	PQL	ug/Kg	J (all detects)
SL-281-SA5B-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	22	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	8.1	22	PQL	ug/Kg	
	NAPHTHALENE	J	0.84	2.0	PQL	ug/Kg	
SL-282-SA5B-SB-4.0-5.0	ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.2	20	PQL	ug/Kg	
SL-282-SA5B-SB-7.0-8.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.6	20	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	14	20	PQL	ug/Kg	

LDC #: 25550D4 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: DE045 ADR
 Laboratory: Lancaster Laboratories

Date: 6/6/11
 Page: 1 of 1
 Reviewer: CR
 2nd Reviewer: V

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	CCB hits but no data qualified
V.	ICP Interference Check Sample (ICS) Analysis	N	(see SDG: DE050)
VI.	Matrix Spike Analysis	N	MS/D (AL, Ba, Ca, Fe, Mg, Mn, P, Ti, Zn) > 4x
VII.	Duplicate Sample Analysis	N	Dup (✓)
VIII.	Laboratory Control Samples (LCS)	N	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	See SDG: DE050
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	NO	EB=2,3

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	DUP08-SA5B-QC-121710	11	SL-281-SA5B-SB-4.0-5.0	21		31	
2	EB05-SA5B-121710	12	SL-281-SA5B-SB-8.0-9.0	22		32	
3	EB01-SIV-121710	13	SL-026-SA5B-SB-4.0-5.0	23		33	
4	SED-014-SIV-SD-0.0-0.5	14	SL-026-SA5B-SB-9.0-10	24		34	
5	SED-012-SIV-SD-0.0-0.5	15		25		35	
6	SED-006-SIV-SD-0.0-0.5	16		26		36	
7	SED-001-SIV-SD-0.0-0.5	17		27		37	
8	SED-004-SIV-SD-0.0-0.5	18		28		38	
9	SL-282-SA5B-SB-4.0-5.0	19		29		39	
10	SL-282-SA5B-SB-7.0-8.0	20		30		40	

Notes: _____

All circled elements are applicable to each sample.

[illegible]

Comments: Mercury by CVAA if performed

SAMPLE DELIVERY GROUP

DE047

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	SL-213-SA5B-SS-0.0-0.5	6172058	N	3050B	6010B	III
20-Dec-2010	SL-213-SA5B-SS-0.0-0.5	6172058	N	3050B	6020	III
20-Dec-2010	SL-213-SA5B-SS-0.0-0.5	6172058	N	3060A	7199	III
20-Dec-2010	SL-213-SA5B-SS-0.0-0.5	6172058	N	3550B	8081A	III
20-Dec-2010	SL-213-SA5B-SS-0.0-0.5	6172058	N	3550B	8082	III
20-Dec-2010	SL-213-SA5B-SS-0.0-0.5	6172058	N	3550B	8151A	III
20-Dec-2010	SL-213-SA5B-SS-0.0-0.5	6172058	N	3550B	8270C	III
20-Dec-2010	SL-213-SA5B-SS-0.0-0.5	6172058	N	3550B	8270C SIM	III
20-Dec-2010	SL-213-SA5B-SS-0.0-0.5	6172058	N	Gen Prep	314.0	III
20-Dec-2010	SL-213-SA5B-SS-0.0-0.5	6172058	N	Gen Prep	9045M	III
20-Dec-2010	SL-213-SA5B-SS-0.0-0.5	6172058	N	METHOD	300.0	III
20-Dec-2010	SL-213-SA5B-SS-0.0-0.5	6172058	N	METHOD	7471A	III
20-Dec-2010	SL-212-SA5B-SS-0.0-0.5	6172057	N	3050B	6010B	III
20-Dec-2010	SL-212-SA5B-SS-0.0-0.5	6172057	N	3050B	6020	III
20-Dec-2010	SL-212-SA5B-SS-0.0-0.5	6172057	N	3060A	7199	III
20-Dec-2010	SL-212-SA5B-SS-0.0-0.5	6172057	N	3550B	8081A	III
20-Dec-2010	SL-212-SA5B-SS-0.0-0.5	6172057	N	3550B	8082	III
20-Dec-2010	SL-212-SA5B-SS-0.0-0.5	6172057	N	3550B	8151A	III
20-Dec-2010	SL-212-SA5B-SS-0.0-0.5	6172057	N	3550B	8270C	III
20-Dec-2010	SL-212-SA5B-SS-0.0-0.5	6172057	N	3550B	8270C SIM	III
20-Dec-2010	SL-212-SA5B-SS-0.0-0.5	6172057	N	Gen Prep	314.0	III
20-Dec-2010	SL-212-SA5B-SS-0.0-0.5	6172057	N	Gen Prep	9045M	III
20-Dec-2010	SL-212-SA5B-SS-0.0-0.5	6172057	N	METHOD	300.0	III
20-Dec-2010	SL-212-SA5B-SS-0.0-0.5	6172057	N	METHOD	7471A	III
20-Dec-2010	SL-216-SA5B-SS-0.0-0.5	6172064	N	3050B	6010B	III
20-Dec-2010	SL-216-SA5B-SS-0.0-0.5	6172064	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	SL-216-SA5B-SS-0.0-0.5	6172064	N	3060A	7199	III
20-Dec-2010	SL-216-SA5B-SS-0.0-0.5	6172064	N	3550B	8081A	III
20-Dec-2010	SL-216-SA5B-SS-0.0-0.5	6172064	N	3550B	8082	III
20-Dec-2010	SL-216-SA5B-SS-0.0-0.5	6172064	N	3550B	8151A	III
20-Dec-2010	SL-216-SA5B-SS-0.0-0.5	6172064	N	3550B	8270C	III
20-Dec-2010	SL-216-SA5B-SS-0.0-0.5	6172064	N	3550B	8270C SIM	III
20-Dec-2010	SL-216-SA5B-SS-0.0-0.5	6172064	N	Gen Prep	9045M	III
20-Dec-2010	SL-216-SA5B-SS-0.0-0.5	6172064	N	METHOD	300.0	III
20-Dec-2010	SL-216-SA5B-SS-0.0-0.5	6172064	N	METHOD	314.0	III
20-Dec-2010	SL-216-SA5B-SS-0.0-0.5	6172064	N	METHOD	7471A	III
20-Dec-2010	SL-214-SA5B-SS-0.0-0.5	6172059	N	3050B	6010B	III
20-Dec-2010	SL-214-SA5B-SS-0.0-0.5	6172059	N	3050B	6020	III
20-Dec-2010	SL-214-SA5B-SS-0.0-0.5	6172059	N	3060A	7199	III
20-Dec-2010	SL-214-SA5B-SS-0.0-0.5	6172059	N	3550B	8081A	III
20-Dec-2010	SL-214-SA5B-SS-0.0-0.5	6172059	N	3550B	8082	III
20-Dec-2010	SL-214-SA5B-SS-0.0-0.5	6172059	N	3550B	8151A	III
20-Dec-2010	SL-214-SA5B-SS-0.0-0.5	6172059	N	3550B	8270C	III
20-Dec-2010	SL-214-SA5B-SS-0.0-0.5	6172059	N	3550B	8270C SIM	III
20-Dec-2010	SL-214-SA5B-SS-0.0-0.5	6172059	N	Gen Prep	9045M	III
20-Dec-2010	SL-214-SA5B-SS-0.0-0.5	6172059	N	METHOD	300.0	III
20-Dec-2010	SL-214-SA5B-SS-0.0-0.5	6172059	N	METHOD	314.0	III
20-Dec-2010	SL-214-SA5B-SS-0.0-0.5	6172059	N	METHOD	7471A	III
20-Dec-2010	SL-217-SA5B-SS-0.0-0.5	6172065	N	3050B	6010B	III
20-Dec-2010	SL-217-SA5B-SS-0.0-0.5	6172065	N	3050B	6020	III
20-Dec-2010	SL-217-SA5B-SS-0.0-0.5	6172065	N	3060A	7199	III
20-Dec-2010	SL-217-SA5B-SS-0.0-0.5	6172065	N	3550B	8081A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	SL-217-SA5B-SS-0.0-0.5	6172065	N	3550B	8082	III
20-Dec-2010	SL-217-SA5B-SS-0.0-0.5	6172065	N	3550B	8151A	III
20-Dec-2010	SL-217-SA5B-SS-0.0-0.5	6172065	N	3550B	8270C	III
20-Dec-2010	SL-217-SA5B-SS-0.0-0.5	6172065	N	3550B	8270C SIM	III
20-Dec-2010	SL-217-SA5B-SS-0.0-0.5	6172065	N	Gen Prep	9045M	III
20-Dec-2010	SL-217-SA5B-SS-0.0-0.5	6172065	N	METHOD	300.0	III
20-Dec-2010	SL-217-SA5B-SS-0.0-0.5	6172065	N	METHOD	314.0	III
20-Dec-2010	SL-217-SA5B-SS-0.0-0.5	6172065	N	METHOD	6850	III
20-Dec-2010	SL-217-SA5B-SS-0.0-0.5	6172065	N	METHOD	7471A	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5	6172060	N	3050B	6010B	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5	6172060	N	3050B	6020	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5	6172060	N	3060A	7199	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5	6172060	N	3550B	8081A	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5	6172060	N	3550B	8082	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5	6172060	N	3550B	8151A	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5	6172060	N	3550B	8270C	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5	6172060	N	3550B	8270C SIM	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5	6172060	N	Gen Prep	9045M	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5	6172060	N	METHOD	300.0	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5	6172060	N	METHOD	314.0	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5	6172060	N	METHOD	7471A	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MS	6172061	MS	3050B	6010B	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MS	6172061	MS	3050B	6020	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MS	6172061	MS	3060A	7199	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MS	6172061	MS	3550B	8081A	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MS	6172061	MS	3550B	8082	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MS	6172061	MS	3550B	8151A	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MS	6172061	MS	3550B	8270C	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MS	6172061	MS	3550B	8270C SIM	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MS	6172061	MS	METHOD	300.0	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MS	6172061	MS	METHOD	314.0	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MS	6172061	MS	METHOD	7471A	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MSD	6172062	MSD	3050B	6010B	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MSD	6172062	MSD	3050B	6020	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MSD	6172062	MSD	3550B	8081A	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MSD	6172062	MSD	3550B	8082	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MSD	6172062	MSD	3550B	8151A	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MSD	6172062	MSD	3550B	8270C	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MSD	6172062	MSD	3550B	8270C SIM	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5MSD	6172062	MSD	METHOD	7471A	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5DUP	6172063	DUP	3050B	6010B	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5DUP	6172063	DUP	3050B	6020	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5DUP	6172063	DUP	3060A	7199	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5DUP	6172063	DUP	Gen Prep	9045M	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5DUP	6172063	DUP	METHOD	300.0	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5DUP	6172063	DUP	METHOD	314.0	III
20-Dec-2010	SL-215-SA5B-SS-0.0-0.5DUP	6172063	DUP	METHOD	7471A	III
20-Dec-2010	SL-255-SA5B-SS-0.0-0.5	6172066	N	3050B	6010B	III
20-Dec-2010	SL-255-SA5B-SS-0.0-0.5	6172066	N	3050B	6020	III
20-Dec-2010	SL-255-SA5B-SS-0.0-0.5	6172066	N	3060A	7199	III
20-Dec-2010	SL-255-SA5B-SS-0.0-0.5	6172066	N	3550B	8081A	III
20-Dec-2010	SL-255-SA5B-SS-0.0-0.5	6172066	N	3550B	8082	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	SL-255-SA5B-SS-0.0-0.5	6172066	N	3550B	8151A	III
20-Dec-2010	SL-255-SA5B-SS-0.0-0.5	6172066	N	3550B	8270C	III
20-Dec-2010	SL-255-SA5B-SS-0.0-0.5	6172066	N	3550B	8270C SIM	III
20-Dec-2010	SL-255-SA5B-SS-0.0-0.5	6172066	N	Gen Prep	9045M	III
20-Dec-2010	SL-255-SA5B-SS-0.0-0.5	6172066	N	METHOD	300.0	III
20-Dec-2010	SL-255-SA5B-SS-0.0-0.5	6172066	N	METHOD	314.0	III
20-Dec-2010	SL-255-SA5B-SS-0.0-0.5	6172066	N	METHOD	7471A	III
20-Dec-2010	DUP09-SA5B-QC-122010	6172055	FD	3050B	6010B	III
20-Dec-2010	DUP09-SA5B-QC-122010	6172055	FD	3050B	6020	III
20-Dec-2010	DUP09-SA5B-QC-122010	6172055	FD	3060A	7199	III
20-Dec-2010	DUP09-SA5B-QC-122010	6172055	FD	3550B	8081A	III
20-Dec-2010	DUP09-SA5B-QC-122010	6172055	FD	3550B	8082	III
20-Dec-2010	DUP09-SA5B-QC-122010	6172055	FD	3550B	8151A	III
20-Dec-2010	DUP09-SA5B-QC-122010	6172055	FD	3550B	8270C	III
20-Dec-2010	DUP09-SA5B-QC-122010	6172055	FD	3550B	8270C SIM	III
20-Dec-2010	DUP09-SA5B-QC-122010	6172055	FD	Gen Prep	314.0	III
20-Dec-2010	DUP09-SA5B-QC-122010	6172055	FD	Gen Prep	9045M	III
20-Dec-2010	DUP09-SA5B-QC-122010	6172055	FD	METHOD	300.0	III
20-Dec-2010	DUP09-SA5B-QC-122010	6172055	FD	METHOD	7471A	III
20-Dec-2010	EB06-SA5B-122010	6172056	EB	3005A	6010B	III
20-Dec-2010	EB06-SA5B-122010	6172056	EB	3020A	6020	III
20-Dec-2010	EB06-SA5B-122010	6172056	EB	3510C	8081A	III
20-Dec-2010	EB06-SA5B-122010	6172056	EB	3510C	8082	III
20-Dec-2010	EB06-SA5B-122010	6172056	EB	3510C	8270C	III
20-Dec-2010	EB06-SA5B-122010	6172056	EB	3510C	8270C SIM	III
20-Dec-2010	EB06-SA5B-122010	6172056	EB	Gen Prep	300.0	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	EB06-SA5B-122010	6172056	EB	Gen Prep	314.0	III
20-Dec-2010	EB06-SA5B-122010	6172056	EB	Gen Prep	7199	III
20-Dec-2010	EB06-SA5B-122010	6172056	EB	METHOD	7470A	III
20-Dec-2010	EB06-SA5B-122010	6172056	EB	METHOD	8151A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-214-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:43:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		1.0	MDL	1.3	PQL	mg/Kg	J	Q

Sample ID: SL-215-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		1.1	MDL	1.4	PQL	mg/Kg	J	Q

Sample ID: SL-216-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:31:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.99	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-217-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.6		1.1	MDL	1.4	PQL	mg/Kg	J	Q

Sample ID: SL-255-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.98	MDL	1.2	PQL	mg/Kg	J	Q

Method Category: GENCHEM

Method: 314.0

Matrix: AQ

Sample ID: EB06-SA5B-122010

Collected: 12/20/2010 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	1.3	J	0.70	MDL	2.0	PQL	ug/L	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: AQ

Sample ID: EB06-SA5B-122010

Collected: 12/20/2010 12:35:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	0.00097	J	0.00084	MDL	0.0050	PQL	mg/L	J	Z

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: DUP09-SA5B-QC-122010

Collected: 12/20/2010 10:11:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	10300		7.55	MDL	30.0	PQL	mg/Kg	J	E
BORON	5.36	J	1.34	MDL	7.50	PQL	mg/Kg	J	Z
CALCIUM	2360		9.20	MDL	30.0	PQL	mg/Kg	J	E
IRON	11800		7.07	MDL	30.0	PQL	mg/Kg	J	E
MAGNESIUM	2470		3.81	MDL	15.0	PQL	mg/Kg	J	E
MANGANESE	176		0.117	MDL	0.750	PQL	mg/Kg	J	Q, Q, E
PHOSPHORUS	209		0.840	MDL	15.0	PQL	mg/Kg	J	Q, E
SODIUM	80.5	J	56.0	MDL	150	PQL	mg/Kg	J	Z
TIN	2.56	J	1.50	MDL	15.0	PQL	mg/Kg	U	B
Zirconium	2.67	J	1.26	MDL	7.50	PQL	mg/Kg	J	Z

Sample ID: SL-212-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	8880		6.07	MDL	24.2	PQL	mg/Kg	J	E
CALCIUM	5450		7.40	MDL	24.2	PQL	mg/Kg	J	E
IRON	15300		5.69	MDL	24.2	PQL	mg/Kg	J	E
MAGNESIUM	3000		3.07	MDL	12.1	PQL	mg/Kg	J	E
MANGANESE	195		0.0942	MDL	0.604	PQL	mg/Kg	J	Q, Q, E
PHOSPHORUS	365		0.676	MDL	12.1	PQL	mg/Kg	J	Q, E
SODIUM	120	J	45.0	MDL	121	PQL	mg/Kg	J	Z
TIN	2.96	J	1.21	MDL	12.1	PQL	mg/Kg	U	B
Zirconium	2.96	J	1.01	MDL	6.04	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-213-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	6790		5.55	MDL	22.1	PQL	mg/Kg	J	E
CALCIUM	2970		6.76	MDL	22.1	PQL	mg/Kg	J	E
IRON	12400		5.19	MDL	22.1	PQL	mg/Kg	J	E
MAGNESIUM	2380		2.80	MDL	11.0	PQL	mg/Kg	J	E
MANGANESE	139		0.0860	MDL	0.551	PQL	mg/Kg	J	Q, Q, E
PHOSPHORUS	300		0.618	MDL	11.0	PQL	mg/Kg	J	Q, E
TIN	2.10	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.11	J	0.926	MDL	5.51	PQL	mg/Kg	J	Z

Sample ID: SL-214-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:43:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	11100		6.20	MDL	24.6	PQL	mg/Kg	J	E
CALCIUM	6470		7.55	MDL	24.6	PQL	mg/Kg	J	E
IRON	16700		5.80	MDL	24.6	PQL	mg/Kg	J	E
MAGNESIUM	3630		3.13	MDL	12.3	PQL	mg/Kg	J	E
MANGANESE	258		0.0961	MDL	0.616	PQL	mg/Kg	J	Q, Q, E
PHOSPHORUS	501		0.690	MDL	12.3	PQL	mg/Kg	J	Q, E
TIN	2.88	J	1.23	MDL	12.3	PQL	mg/Kg	U	B
Zirconium	4.20	J	1.03	MDL	6.16	PQL	mg/Kg	J	Z

Sample ID: SL-215-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12700		6.66	MDL	26.5	PQL	mg/Kg	J	E
BORON	6.28	J	1.18	MDL	6.62	PQL	mg/Kg	J	Z
CALCIUM	2770		8.12	MDL	26.5	PQL	mg/Kg	J	E
IRON	14800		6.24	MDL	26.5	PQL	mg/Kg	J	E
MAGNESIUM	3030		3.36	MDL	13.2	PQL	mg/Kg	J	E
MANGANESE	229		0.103	MDL	0.662	PQL	mg/Kg	J	Q, Q, E
PHOSPHORUS	260		0.742	MDL	13.2	PQL	mg/Kg	J	Q, E
SODIUM	94.3	J	49.4	MDL	132	PQL	mg/Kg	J	Z
TIN	2.33	J	1.32	MDL	13.2	PQL	mg/Kg	U	B
Zirconium	2.96	J	1.11	MDL	6.62	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-216-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:31:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13200		6.04	MDL	24.0	PQL	mg/Kg	J	E
CALCIUM	2990		7.37	MDL	24.0	PQL	mg/Kg	J	E
IRON	16200		5.66	MDL	24.0	PQL	mg/Kg	J	E
MAGNESIUM	3360		3.05	MDL	12.0	PQL	mg/Kg	J	E
MANGANESE	293		0.0937	MDL	0.601	PQL	mg/Kg	J	Q, Q, E
PHOSPHORUS	293		0.673	MDL	12.0	PQL	mg/Kg	J	Q, E
SODIUM	96.3	J	44.8	MDL	120	PQL	mg/Kg	J	Z
TIN	2.45	J	1.20	MDL	12.0	PQL	mg/Kg	U	B
Zirconium	3.22	J	1.01	MDL	6.01	PQL	mg/Kg	J	Z

Sample ID: SL-217-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	10900		6.83	MDL	27.2	PQL	mg/Kg	J	E
CALCIUM	3790		8.32	MDL	27.2	PQL	mg/Kg	J	E
IRON	17600		6.40	MDL	27.2	PQL	mg/Kg	J	E
MAGNESIUM	3250		3.45	MDL	13.6	PQL	mg/Kg	J	E
MANGANESE	223		0.106	MDL	0.679	PQL	mg/Kg	J	Q, Q, E
PHOSPHORUS	411		0.760	MDL	13.6	PQL	mg/Kg	J	Q, E
TIN	3.10	J	1.36	MDL	13.6	PQL	mg/Kg	U	B
Zirconium	3.91	J	1.14	MDL	6.79	PQL	mg/Kg	J	Z

Sample ID: SL-255-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:10:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	67300		28.7	MDL	122	PQL	mg/Kg	J	E

Sample ID: SL-255-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12300		6.13	MDL	24.4	PQL	mg/Kg	J	E
CALCIUM	1950		7.47	MDL	24.4	PQL	mg/Kg	J	E
MAGNESIUM	3220		3.09	MDL	12.2	PQL	mg/Kg	J	E
MANGANESE	315		0.0950	MDL	0.609	PQL	mg/Kg	J	Q, Q, E
PHOSPHORUS	778		0.682	MDL	12.2	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-255-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	78.5	J	45.4	MDL	122	PQL	mg/Kg	J	Z
TIN	2.71	J	1.22	MDL	12.2	PQL	mg/Kg	U	B
Zirconium	4.80	J	1.02	MDL	6.09	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: AQ

Sample ID: EB06-SA5B-122010

Collected: 12/20/2010 12:35:00

Analysis Type: REA5

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000054	J	0.00005 2	MDL	0.0010	PQL	mg/L	U	B

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP09-SA5B-QC-122010

Collected: 12/20/2010 10:11:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.146	J	0.0583	MDL	0.583	PQL	mg/Kg	J	Z

Sample ID: DUP09-SA5B-QC-122010

Collected: 12/20/2010 10:11:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.425		0.0728	MDL	0.146	PQL	mg/Kg	J	Q

Sample ID: DUP09-SA5B-QC-122010

Collected: 12/20/2010 10:11:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	62.7		0.157	MDL	0.583	PQL	mg/Kg	J	E, A

Sample ID: DUP09-SA5B-QC-122010

Collected: 12/20/2010 10:11:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.129	J	0.0874	MDL	0.291	PQL	mg/Kg	J	Z, Q
ARSENIC	3.01		0.0874	MDL	0.583	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP09-SA5B-QC-122010

Collected: 12/20/2010 10:11:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.204		0.0524	MDL	0.146	PQL	mg/Kg	J	Q
CHROMIUM	13.1		0.175	MDL	0.583	PQL	mg/Kg	J	Q, E
COPPER	6.91		0.0962	MDL	0.583	PQL	mg/Kg	J	Q, E
LEAD	39.9		0.0152	MDL	0.291	PQL	mg/Kg	J	E
NICKEL	8.84		0.146	MDL	0.583	PQL	mg/Kg	J	Q, E
THALLIUM	0.180		0.0437	MDL	0.146	PQL	mg/Kg	J	Q
VANADIUM	22.9		0.0321	MDL	0.146	PQL	mg/Kg	J	Q
ZINC	45.0		0.816	MDL	4.37	PQL	mg/Kg	J	Q, E

Sample ID: SL-212-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:22:00

Analysis Type: REA

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	657		3.28	MDL	17.6	PQL	mg/Kg	J	Q, E

Sample ID: SL-212-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:22:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.318	J	0.0469	MDL	0.469	PQL	mg/Kg	J	Z

Sample ID: SL-212-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:22:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.896		0.0586	MDL	0.117	PQL	mg/Kg	J	Q

Sample ID: SL-212-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:22:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	68.0		0.127	MDL	0.469	PQL	mg/Kg	J	E, A

Sample ID: SL-212-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:22:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.380		0.0704	MDL	0.235	PQL	mg/Kg	J	Q
ARSENIC	4.10		0.0704	MDL	0.469	PQL	mg/Kg	J	Q
CADMIUM	1.20		0.0422	MDL	0.117	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-212-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:22:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	20.6		0.141	MDL	0.469	PQL	mg/Kg	J	Q, E
COPPER	33.1		0.0774	MDL	0.469	PQL	mg/Kg	J	Q, E
LEAD	40.0		0.0122	MDL	0.235	PQL	mg/Kg	J	E
NICKEL	27.0		0.117	MDL	0.469	PQL	mg/Kg	J	Q, E
THALLIUM	0.188		0.0352	MDL	0.117	PQL	mg/Kg	J	Q
VANADIUM	29.1		0.0258	MDL	0.117	PQL	mg/Kg	J	Q

Sample ID: SL-213-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:15:00

Analysis Type: REA

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	654		3.06	MDL	16.4	PQL	mg/Kg	J	Q, E

Sample ID: SL-213-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:15:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.216	J	0.0437	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: SL-213-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:15:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.650		0.0546	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-213-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:15:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	60.3		0.118	MDL	0.437	PQL	mg/Kg	J	E, A

Sample ID: SL-213-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.204	J	0.0655	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	3.98		0.0655	MDL	0.437	PQL	mg/Kg	J	Q
CADMIUM	1.75		0.0393	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	12.7		0.131	MDL	0.437	PQL	mg/Kg	J	Q, E
COPPER	26.3		0.0721	MDL	0.437	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-213-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	24.1		0.0114	MDL	0.218	PQL	mg/Kg	J	E
NICKEL	17.5		0.109	MDL	0.437	PQL	mg/Kg	J	Q, E
THALLIUM	0.134		0.0328	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	21.0		0.0240	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-214-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:43:00

Analysis Type: REA

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	715		3.62	MDL	19.4	PQL	mg/Kg	J	Q, E

Sample ID: SL-214-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:43:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.302	J	0.0517	MDL	0.517	PQL	mg/Kg	J	Z

Sample ID: SL-214-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:43:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.83		0.0647	MDL	0.129	PQL	mg/Kg	J	Q

Sample ID: SL-214-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:43:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	79.9		0.140	MDL	0.517	PQL	mg/Kg	J	E, A

Sample ID: SL-214-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:43:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.464		0.0776	MDL	0.259	PQL	mg/Kg	J	Q
ARSENIC	4.45		0.0776	MDL	0.517	PQL	mg/Kg	J	Q
CADMIUM	2.44		0.0466	MDL	0.129	PQL	mg/Kg	J	Q
CHROMIUM	36.0		0.155	MDL	0.517	PQL	mg/Kg	J	Q, E
COPPER	55.9		0.0854	MDL	0.517	PQL	mg/Kg	J	Q, E
LEAD	55.9		0.0135	MDL	0.259	PQL	mg/Kg	J	E
NICKEL	46.9		0.129	MDL	0.517	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-214-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:43:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.316		0.0388	MDL	0.129	PQL	mg/Kg	J	Q
VANADIUM	34.5		0.0285	MDL	0.129	PQL	mg/Kg	J	Q

Sample ID: SL-215-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:05:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.196	J	0.0556	MDL	0.556	PQL	mg/Kg	J	Z

Sample ID: SL-215-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:05:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.453		0.0695	MDL	0.139	PQL	mg/Kg	J	Q

Sample ID: SL-215-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:05:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	68.1		0.150	MDL	0.556	PQL	mg/Kg	J	E, A

Sample ID: SL-215-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:05:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.156	J	0.0834	MDL	0.278	PQL	mg/Kg	J	Z, Q
ARSENIC	3.57		0.0834	MDL	0.556	PQL	mg/Kg	J	Q
CADMIUM	0.202		0.0501	MDL	0.139	PQL	mg/Kg	J	Q
CHROMIUM	14.2		0.167	MDL	0.556	PQL	mg/Kg	J	Q, E
COPPER	7.44		0.0918	MDL	0.556	PQL	mg/Kg	J	Q, E
LEAD	47.4		0.0145	MDL	0.278	PQL	mg/Kg	J	E
NICKEL	9.68		0.139	MDL	0.556	PQL	mg/Kg	J	Q, E
THALLIUM	0.222		0.0417	MDL	0.139	PQL	mg/Kg	J	Q
VANADIUM	25.0		0.0306	MDL	0.139	PQL	mg/Kg	J	Q
ZINC	51.0		0.779	MDL	4.17	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-216-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:31:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.164	J	0.0485	MDL	0.485	PQL	mg/Kg	J	Z

Sample ID: SL-216-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:31:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.742		0.0607	MDL	0.121	PQL	mg/Kg	J	Q

Sample ID: SL-216-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:31:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	89.5		0.131	MDL	0.485	PQL	mg/Kg	J	E, A

Sample ID: SL-216-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:31:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0826	J	0.0728	MDL	0.243	PQL	mg/Kg	J	Z, Q
ARSENIC	4.39		0.0728	MDL	0.485	PQL	mg/Kg	J	Q
CADMIUM	0.434		0.0437	MDL	0.121	PQL	mg/Kg	J	Q
CHROMIUM	17.3		0.146	MDL	0.485	PQL	mg/Kg	J	Q, E
COPPER	10.2		0.0801	MDL	0.485	PQL	mg/Kg	J	Q, E
LEAD	18.1		0.0126	MDL	0.243	PQL	mg/Kg	J	E
NICKEL	13.0		0.121	MDL	0.485	PQL	mg/Kg	J	Q, E
SILVER	0.0874	J	0.0146	MDL	0.121	PQL	mg/Kg	J	Z
THALLIUM	0.291		0.0364	MDL	0.121	PQL	mg/Kg	J	Q
VANADIUM	30.1		0.0267	MDL	0.121	PQL	mg/Kg	J	Q
ZINC	72.6		0.679	MDL	3.64	PQL	mg/Kg	J	Q, E

Sample ID: SL-217-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:50:00

Analysis Type: REA

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	758		3.73	MDL	20.0	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-217-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:50:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.69		0.0666	MDL	0.133	PQL	mg/Kg	J	Q

Sample ID: SL-217-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:50:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	69.9		0.144	MDL	0.533	PQL	mg/Kg	J	E, A

Sample ID: SL-217-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:50:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.534		0.0799	MDL	0.266	PQL	mg/Kg	J	Q
ARSENIC	4.18		0.0799	MDL	0.533	PQL	mg/Kg	J	Q
CADMIUM	1.88		0.0480	MDL	0.133	PQL	mg/Kg	J	Q
CHROMIUM	31.9		0.160	MDL	0.533	PQL	mg/Kg	J	Q, E
COPPER	42.6		0.0879	MDL	0.533	PQL	mg/Kg	J	Q, E
LEAD	48.7		0.0139	MDL	0.266	PQL	mg/Kg	J	E
NICKEL	33.6		0.133	MDL	0.533	PQL	mg/Kg	J	Q, E
THALLIUM	0.379		0.0400	MDL	0.133	PQL	mg/Kg	J	Q
VANADIUM	28.5		0.0293	MDL	0.133	PQL	mg/Kg	J	Q

Sample ID: SL-255-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:10:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.198	J	0.0482	MDL	0.482	PQL	mg/Kg	J	Z

Sample ID: SL-255-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:10:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.871		0.0603	MDL	0.121	PQL	mg/Kg	J	Q

Sample ID: SL-255-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:10:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.130	MDL	0.482	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-255-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.126	J	0.0724	MDL	0.241	PQL	mg/Kg	J	Z, Q
ARSENIC	5.37		0.0724	MDL	0.482	PQL	mg/Kg	J	Q
CADMIUM	0.316		0.0434	MDL	0.121	PQL	mg/Kg	J	Q
CHROMIUM	22.0		0.145	MDL	0.482	PQL	mg/Kg	J	Q, E
COPPER	12.1		0.0796	MDL	0.482	PQL	mg/Kg	J	Q, E
LEAD	18.6		0.0125	MDL	0.241	PQL	mg/Kg	J	E
NICKEL	15.1		0.121	MDL	0.482	PQL	mg/Kg	J	Q, E
SILVER	0.0823	J	0.0145	MDL	0.121	PQL	mg/Kg	J	Z
THALLIUM	0.324		0.0362	MDL	0.121	PQL	mg/Kg	J	Q
VANADIUM	38.6		0.0265	MDL	0.121	PQL	mg/Kg	J	Q
ZINC	72.4		0.675	MDL	3.62	PQL	mg/Kg	J	Q, E

Method Category: METALS

Method: 7199

Matrix: AQ

Sample ID: EB06-SA5B-122010

Collected: 12/20/2010 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	5.0	U	5.0	MDL	10.0	PQL	ug/L	UJ	H

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: DUP09-SA5B-QC-122010

Collected: 12/20/2010 10:11:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.86	J	0.30	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-213-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.80	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-215-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.76	J	0.28	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-216-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:31:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.68	J	0.25	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-217-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	1.0	J	0.28	MDL	1.4	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: DUP09-SA5B-QC-122010

Collected: 12/20/2010 10:11:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0107	J	0.0042	MDL	0.145	PQL	mg/Kg	J	Z, FD

Sample ID: SL-215-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0050	J	0.0039	MDL	0.138	PQL	mg/Kg	J	Z, FD

Sample ID: SL-216-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:31:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0214	J	0.0033	MDL	0.116	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: DUP09-SA5B-QC-122010

Collected: 12/20/2010 10:11:00

Analysis Type: DL-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	3.2		0.50	MDL	2.6	PQL	ug/Kg	J	FD

Sample ID: DUP09-SA5B-QC-122010

Collected: 12/20/2010 10:11:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	1.3		0.091	MDL	0.25	PQL	ug/Kg	J	FD
DELTA-BHC	0.072	J	0.055	MDL	0.25	PQL	ug/Kg	J	Z, FD

Sample ID: SL-212-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.097	J	0.043	MDL	0.20	PQL	ug/Kg	J	Z

Sample ID: SL-213-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.57	J	0.34	MDL	0.93	PQL	ug/Kg	J	Z

Sample ID: SL-215-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	1.5	U	1.5	MDL	1.5	PQL	ug/Kg	UJ	S
4,4'-DDE	0.25	U	0.25	MDL	0.47	PQL	ug/Kg	UJ	S
4,4'-DDT	1.2	U	1.2	MDL	1.2	PQL	ug/Kg	UJ	S, FD
ALDRIN	0.092	U	0.092	MDL	0.23	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.047	U	0.047	MDL	0.23	PQL	ug/Kg	UJ	S
BETA-BHC	0.29		0.083	MDL	0.23	PQL	ug/Kg	J	Q, S, FD
Chlordane	1.7	U	1.7	MDL	4.7	PQL	ug/Kg	UJ	S
DELTA-BHC	0.050	U	0.050	MDL	0.23	PQL	ug/Kg	UJ	S, FD
DIELDRIN	0.39	U	0.39	MDL	0.47	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.061	U	0.061	MDL	0.23	PQL	ug/Kg	R	Q
ENDOSULFAN II	0.15	U	0.15	MDL	0.47	PQL	ug/Kg	UJ	Q, S
ENDOSULFAN SULFATE	0.092	U	0.092	MDL	0.47	PQL	ug/Kg	UJ	S
ENDRIN	0.092	U	0.092	MDL	0.47	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.092	U	0.092	MDL	0.47	PQL	ug/Kg	R	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-215-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN KETONE	0.25	U	0.25	MDL	0.47	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.047	U	0.047	MDL	0.23	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.083	U	0.083	MDL	0.23	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.20	U	0.20	MDL	0.23	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.47	U	0.47	MDL	2.3	PQL	ug/Kg	R	Q
MIREX	0.092	U	0.092	MDL	0.47	PQL	ug/Kg	UJ	S
TOXAPHENE	3.1	U	3.1	MDL	9.2	PQL	ug/Kg	UJ	S

Sample ID: SL-216-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:31:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.087	U	0.087	MDL	0.42	PQL	ug/Kg	UJ	S
4,4'-DDE	0.82		0.082	MDL	0.42	PQL	ug/Kg	J	S
4,4'-DDT	0.34	J	0.082	MDL	0.42	PQL	ug/Kg	J	Z, S
ALDRIN	0.082	U	0.082	MDL	0.21	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.042	U	0.042	MDL	0.21	PQL	ug/Kg	UJ	S
BETA-BHC	0.12	J	0.074	MDL	0.21	PQL	ug/Kg	J	Z, S
Chlordane	0.99	U	0.99	MDL	4.2	PQL	ug/Kg	UJ	S
DELTA-BHC	0.045	U	0.045	MDL	0.21	PQL	ug/Kg	UJ	S
DIELDRIN	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.054	U	0.054	MDL	0.21	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
ENDRIN	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.042	U	0.042	MDL	0.21	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.074	U	0.074	MDL	0.21	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.042	U	0.042	MDL	0.21	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.42	U	0.42	MDL	2.1	PQL	ug/Kg	UJ	S
MIREX	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
TOXAPHENE	2.7	U	2.7	MDL	8.2	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-255-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	1.1	U	1.1	MDL	1.1	PQL	ug/Kg	UJ	S
4,4'-DDE	0.41	U	0.41	MDL	0.42	PQL	ug/Kg	UJ	S
4,4'-DDT	0.33	U	0.33	MDL	0.42	PQL	ug/Kg	UJ	S
ALDRIN	0.081	U	0.081	MDL	0.20	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.058	J	0.042	MDL	0.20	PQL	ug/Kg	J	Z, S
BETA-BHC	0.074	U	0.074	MDL	0.20	PQL	ug/Kg	UJ	S
Chlordane	3.9	U	3.9	MDL	4.2	PQL	ug/Kg	UJ	S
DELTA-BHC	0.044	U	0.044	MDL	0.20	PQL	ug/Kg	UJ	S
DIELDRIN	0.081	U	0.081	MDL	0.42	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.054	U	0.054	MDL	0.20	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.081	U	0.081	MDL	0.42	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.081	U	0.081	MDL	0.42	PQL	ug/Kg	UJ	S
ENDRIN	0.081	U	0.081	MDL	0.42	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.092	U	0.092	MDL	0.42	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.081	U	0.081	MDL	0.42	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.042	U	0.042	MDL	0.20	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.074	U	0.074	MDL	0.20	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.042	U	0.042	MDL	0.20	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.42	U	0.42	MDL	2.0	PQL	ug/Kg	UJ	S
MIREX	0.081	U	0.081	MDL	0.42	PQL	ug/Kg	UJ	S
TOXAPHENE	2.7	U	2.7	MDL	8.1	PQL	ug/Kg	UJ	S

Method Category: SVOA

Method: 8082

Matrix: AQ

Sample ID: EB06-SA5B-122010

Collected: 12/20/2010 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	0.11	U	0.11	MDL	0.53	PQL	ug/L	UJ	L
Aroclor 5442	0.11	U	0.11	MDL	0.53	PQL	ug/L	UJ	L
Aroclor 5460	0.11	U	0.11	MDL	0.53	PQL	ug/L	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: DUP09-SA5B-QC-122010

Collected: 12/20/2010 10:11:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	21		1.0	MDL	5.2	PQL	ug/Kg	J	FD
Aroclor 5432	3.0	U	3.0	MDL	10	PQL	ug/Kg	UJ	L
Aroclor 5442	3.0	U	3.0	MDL	10	PQL	ug/Kg	UJ	L
Aroclor 5460	16		3.0	MDL	10	PQL	ug/Kg	J	FD, L

Sample ID: SL-212-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:22:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	6.0	U	6.0	MDL	20	PQL	ug/Kg	UJ	L
Aroclor 5442	6.0	U	6.0	MDL	20	PQL	ug/Kg	UJ	L
Aroclor 5460	39		6.0	MDL	20	PQL	ug/Kg	J	L

Sample ID: SL-213-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:15:00

Analysis Type: RES

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	11	U	11	MDL	37	PQL	ug/Kg	UJ	L
Aroclor 5442	11	U	11	MDL	37	PQL	ug/Kg	UJ	L
Aroclor 5460	36	J	11	MDL	37	PQL	ug/Kg	J	Z, L

Sample ID: SL-214-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:43:00

Analysis Type: RES

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	13	U	13	MDL	43	PQL	ug/Kg	UJ	L
Aroclor 5442	13	U	13	MDL	43	PQL	ug/Kg	UJ	L
Aroclor 5460	85		13	MDL	43	PQL	ug/Kg	J	L

Sample ID: SL-215-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	37		0.46	MDL	2.4	PQL	ug/Kg	J	FD
Aroclor 5432	1.4	U	1.4	MDL	4.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.4	U	1.4	MDL	4.6	PQL	ug/Kg	UJ	L
Aroclor 5460	37		1.4	MDL	4.6	PQL	ug/Kg	J	FD, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-216-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:31:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.9	J	0.41	MDL	2.1	PQL	ug/Kg	J	Z
AROCLOR 1260	1.5	J	0.41	MDL	2.1	PQL	ug/Kg	J	Z
Aroclor 5432	1.2	U	1.2	MDL	4.1	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	4.1	PQL	ug/Kg	UJ	L
Aroclor 5460	3.1	J	1.2	MDL	4.1	PQL	ug/Kg	J	Z, L

Sample ID: SL-217-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:50:00

Analysis Type: RES

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	14	U	14	MDL	46	PQL	ug/Kg	UJ	L
Aroclor 5442	14	U	14	MDL	46	PQL	ug/Kg	UJ	L
Aroclor 5460	45	J	14	MDL	46	PQL	ug/Kg	J	Z, L

Sample ID: SL-255-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.0	J	0.41	MDL	2.1	PQL	ug/Kg	J	Z
AROCLOR 1260	0.76	J	0.41	MDL	2.1	PQL	ug/Kg	J	Z
Aroclor 5432	1.2	U	1.2	MDL	4.1	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	4.1	PQL	ug/Kg	UJ	L
Aroclor 5460	1.5	J	1.2	MDL	4.1	PQL	ug/Kg	J	Z, L

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: DUP09-SA5B-QC-122010

Collected: 12/20/2010 10:11:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	1.2	U	1.2	MDL	3.6	PQL	ug/Kg	R	L
MCPP	130	J	110	MDL	380	PQL	ug/Kg	J	Z, FD

Sample ID: SL-212-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.97	U	0.97	MDL	2.9	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-213-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	1.6	U	1.6	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-214-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:43:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	1.1	U	1.1	MDL	3.1	PQL	ug/Kg	R	L

Sample ID: SL-215-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	1.1	U	1.1	MDL	3.3	PQL	ug/Kg	R	L
MCCP	100	U	100	MDL	350	PQL	ug/Kg	UJ	FD

Sample ID: SL-216-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:31:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.17	J	0.093	MDL	0.21	PQL	ug/Kg	J	Z
DINOSEB	0.99	U	0.99	MDL	3.0	PQL	ug/Kg	R	L

Sample ID: SL-217-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICHLOROPROP	1.5	J	1.1	MDL	2.4	PQL	ug/Kg	J	Z
DINOSEB	1.1	U	1.1	MDL	3.4	PQL	ug/Kg	R	L

Sample ID: SL-255-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.20	J	0.092	MDL	0.21	PQL	ug/Kg	J	Z
DINOSEB	0.98	U	0.98	MDL	3.0	PQL	ug/Kg	R	L

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: AQ

Sample ID: EB06-SA5B-122010

Collected: 12/20/2010 12:35:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: DUP09-SA5B-QC-122010

Collected: 12/20/2010 10:11:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	29	J	25	MDL	250	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	28	J	25	MDL	250	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	60	J	25	MDL	250	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	180	J	25	MDL	250	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	86	J	25	MDL	250	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	58	J	25	MDL	510	PQL	ug/Kg	J	Z
CHRYSENE	120	J	25	MDL	250	PQL	ug/Kg	J	Z
FLUORANTHENE	64	J	25	MDL	250	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	100	J	25	MDL	250	PQL	ug/Kg	J	Z
PHENANTHRENE	45	J	25	MDL	250	PQL	ug/Kg	J	Z
PYRENE	53	J	25	MDL	250	PQL	ug/Kg	J	Z

Sample ID: SL-212-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	37	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	160	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	100	J	20	MDL	200	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	180	J	20	MDL	400	PQL	ug/Kg	J	Z
CARBAZOLE	27	J	20	MDL	200	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	70	J	20	MDL	200	PQL	ug/Kg	J	Z
DIBENZOFURAN	100	J	20	MDL	200	PQL	ug/Kg	J	Z
Di-n-octylphthalate	66	J	20	MDL	200	PQL	ug/Kg	J	Z
HEXACHLOROBENZENE	100	J	20	MDL	200	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-213-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	20	J	19	MDL	190	PQL	ug/Kg	J	Z
DIBENZOFURAN	26	J	19	MDL	190	PQL	ug/Kg	J	Z
Di-n-butylphthalate	22	J	19	MDL	190	PQL	ug/Kg	J	Z
HEXACHLOROBENZENE	25	J	19	MDL	190	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	150	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-214-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:43:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1100	J	220	MDL	2200	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1500	J	220	MDL	2200	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	330	J	220	MDL	4300	PQL	ug/Kg	J	Z
CHRYSENE	1900	J	220	MDL	2200	PQL	ug/Kg	J	Z
FLUORANTHENE	650	J	220	MDL	2200	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1700	J	220	MDL	2200	PQL	ug/Kg	J	Z
PHENANTHRENE	330	J	220	MDL	2200	PQL	ug/Kg	J	Z
PYRENE	550	J	220	MDL	2200	PQL	ug/Kg	J	Z

Sample ID: SL-215-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1600	U	1600	MDL	4600	PQL	ug/Kg	R	Q
BIS(2-ETHYLHEXYL)PHthalate	42	J	23	MDL	460	PQL	ug/Kg	J	Z

Sample ID: SL-216-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:31:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	27	J	21	MDL	210	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	120	J	21	MDL	410	PQL	ug/Kg	J	Z

Sample ID: SL-217-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Butylbenzylphthalate	87	J	23	MDL	230	PQL	ug/Kg	J	Z
CARBAZOLE	60	J	23	MDL	230	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-255-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	29	J	21	MDL	410	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: AQ

Sample ID: EB06-SA5B-122010

Collected: 12/20/2010 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.014	J	0.010	MDL	0.050	PQL	ug/L	J	Z
2-METHYLNAPHTHALENE	0.019	J	0.010	MDL	0.050	PQL	ug/L	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	0.26	J	0.050	MDL	1.0	PQL	ug/L	U	B
Butylbenzylphthalate	0.12	J	0.050	MDL	1.0	PQL	ug/L	U	B
Diethylphthalate	0.056	J	0.050	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.27	J	0.050	MDL	1.0	PQL	ug/L	U	B
Di-n-octylphthalate	0.12	J	0.050	MDL	1.0	PQL	ug/L	J	Z
NAPHTHALENE	0.042	J	0.010	MDL	0.050	PQL	ug/L	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: DUP09-SA5B-QC-122010

Collected: 12/20/2010 10:11:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	11	J	5.1	MDL	13	PQL	ug/Kg	J	Z, FD
ANTHRACENE	3.9	J	2.5	MDL	13	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	5.1	U	5.1	MDL	13	PQL	ug/Kg	UJ	FD
NAPHTHALENE	9.1	J	5.1	MDL	13	PQL	ug/Kg	J	Z, FD

Sample ID: SL-212-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	6.7	J	4.0	MDL	10	PQL	ug/Kg	J	Z
FLUORENE	7.3	J	4.0	MDL	10	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-213-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	7.1	J	3.7	MDL	9.4	PQL	ug/Kg	J	Z
FLUORENE	4.0	J	3.7	MDL	9.4	PQL	ug/Kg	J	Z

Sample ID: SL-214-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:43:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	25	J	22	MDL	110	PQL	ug/Kg	J	Z

Sample ID: SL-215-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:05:00

Analysis Type: RES

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	4.8	J	4.6	MDL	12	PQL	ug/Kg	J	Z, FD
2-METHYLNAPHTHALENE	5.3	J	4.6	MDL	12	PQL	ug/Kg	J	Z
ANTHRACENE	4.9	J	2.3	MDL	12	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	9.6	J	4.6	MDL	12	PQL	ug/Kg	J	Z, FD
NAPHTHALENE	5.1	J	4.6	MDL	12	PQL	ug/Kg	J	Z, FD

Sample ID: SL-216-SA5B-SS-0.0-0.5

Collected: 12/20/2010 9:31:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.95	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.3	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
ANTHRACENE	0.47	J	0.41	MDL	2.1	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.1	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
NAPHTHALENE	1.3	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z

Sample ID: SL-255-SA5B-SS-0.0-0.5

Collected: 12/20/2010 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.5	J	0.82	MDL	2.1	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.8	J	0.82	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.6	J	0.82	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.0	J	0.82	MDL	2.1	PQL	ug/Kg	J	Z
NAPHTHALENE	1.4	J	0.82	MDL	2.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047
EDD Filename: PrepDE047_v1

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

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Quality Control Outlier Reports

DE047

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: DE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199 Preparation Method: Gen Prep
Matrix: AQ

Sample ID	Type	Actual	Criteria	Units	Flag
EB06-SA5B-122010 (RES)	Sampling To Analysis	48.00	24.00	HOURS	J (all detects) UJ (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: DE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P36308CB222159	12/30/2010 9:59:00 PM	ALUMINUM CALCIUM PHOSPHORUS TIN	6.25 mg/Kg 6.19 mg/Kg 1.39 mg/Kg 1.23 mg/Kg	DUP09-SA5B-QC-122010 SL-212-SA5B-SS-0.0-0.5 SL-213-SA5B-SS-0.0-0.5 SL-214-SA5B-SS-0.0-0.5 SL-215-SA5B-SS-0.0-0.5 SL-216-SA5B-SS-0.0-0.5 SL-217-SA5B-SS-0.0-0.5 SL-255-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP09-SA5B-QC-122010(RES)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-212-SA5B-SS-0.0-0.5(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-213-SA5B-SS-0.0-0.5(RES)	TIN	2.10 mg/Kg	2.10U mg/Kg
SL-214-SA5B-SS-0.0-0.5(RES)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-215-SA5B-SS-0.0-0.5(RES)	TIN	2.33 mg/Kg	2.33U mg/Kg
SL-216-SA5B-SS-0.0-0.5(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg
SL-217-SA5B-SS-0.0-0.5(RES)	TIN	3.10 mg/Kg	3.10U mg/Kg
SL-255-SA5B-SS-0.0-0.5(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg

Method: 6020
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P36550AB220811A	1/6/2011 8:11:00 AM	COPPER LEAD	0.00058 mg/L 0.00023 mg/L	EB06-SA5B-122010

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB06-SA5B-122010(REA5)	LEAD	0.000054 mg/L	0.000054U mg/L

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P36326AB220949A	1/6/2011 9:49:00 AM	ARSENIC COPPER LEAD	0.0668 mg/Kg 0.0753 mg/Kg 0.0148 mg/Kg	DUP09-SA5B-QC-122010 SL-212-SA5B-SS-0.0-0.5 SL-213-SA5B-SS-0.0-0.5 SL-214-SA5B-SS-0.0-0.5 SL-215-SA5B-SS-0.0-0.5 SL-216-SA5B-SS-0.0-0.5 SL-217-SA5B-SS-0.0-0.5 SL-255-SA5B-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: DE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWM35B261350	1/6/2011 1:50:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE Butylbenzylphthalate Di-n-butylphthalate	0.11 ug/L 0.10 ug/L 0.15 ug/L	EB06-SA5B-122010

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB06-SA5B-122010(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.26 ug/L	1.0U ug/L
EB06-SA5B-122010(RES)	Butylbenzylphthalate	0.12 ug/L	1.0U ug/L
EB06-SA5B-122010(RES)	Di-n-butylphthalate	0.27 ug/L	1.0U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: DE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA5B-SS-0.0-0.5MS SL-215-SA5B-SS-0.0-0.5MSD (DUP09-SA5B-QC-122010 SL-212-SA5B-SS-0.0-0.5 SL-213-SA5B-SS-0.0-0.5 SL-214-SA5B-SS-0.0-0.5 SL-215-SA5B-SS-0.0-0.5 SL-216-SA5B-SS-0.0-0.5 SL-217-SA5B-SS-0.0-0.5 SL-255-SA5B-SS-0.0-0.5)	TITANIUM	375	324	75.00-125.00	-	TITANIUM	No Qual, >4x

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA5B-SS-0.0-0.5MS (SL-214-SA5B-SS-0.0-0.5 SL-215-SA5B-SS-0.0-0.5 SL-216-SA5B-SS-0.0-0.5 SL-217-SA5B-SS-0.0-0.5 SL-255-SA5B-SS-0.0-0.5)	FLUORIDE	54	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA5B-SS-0.0-0.5MS SL-215-SA5B-SS-0.0-0.5MSD (SL-215-SA5B-SS-0.0-0.5)	4,4'-DDT ALPHA-BHC BETA-BHC ENDOSULFAN SULFATE HEPTACHLOR	420 - 150 - -	342 - 181 - -	10.00-178.00 10.00-129.00 14.00-147.00 21.00-160.00 13.00-128.00	- 71 (50.00) - 102 (50.00) 64 (50.00)	4,4'-DDT ALPHA-BHC BETA-BHC ENDOSULFAN SULFATE HEPTACHLOR	J(all detects)
SL-215-SA5B-SS-0.0-0.5MS SL-215-SA5B-SS-0.0-0.5MSD (SL-215-SA5B-SS-0.0-0.5)	ENDOSULFAN I ENDRIN ALDEHYDE METHOXYCHLOR	0 0 0	0 - 20	16.00-137.00 10.00-148.00 32.00-147.00	- 200 (35.00) 200 (50.00)	ENDOSULFAN I ENDRIN ALDEHYDE METHOXYCHLOR	J(all detects) R(all non-detects)
SL-215-SA5B-SS-0.0-0.5MS (SL-215-SA5B-SS-0.0-0.5)	ENDOSULFAN II	26	-	28.00-154.00	-	ENDOSULFAN II	J(all detects) UJ(all non-detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA5B-SS-0.0-0.5MS (SL-215-SA5B-SS-0.0-0.5)	DALAPON	97	-	12.00-86.00	-	DALAPON	J(all detects)

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: DE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA5B-SS-0.0-0.5MS SL-215-SA5B-SS-0.0-0.5MSD (SL-215-SA5B-SS-0.0-0.5)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA5B-SS-0.0-0.5MS SL-215-SA5B-SS-0.0-0.5MSD (SL-215-SA5B-SS-0.0-0.5)	BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE CHRYSENE Diethylphthalate Dimethylphthalate INDENO(1,2,3-CD)PYRENE	-43 -380 -12 -107 - - -45	-32 -339 -12 -72 0 0 -48	34.00-156.00 43.00-155.00 33.00-141.00 29.00-156.00 87.00-131.00 74.00-118.00 21.00-143.00	- - - 31 (30.00) 200 (30.00) 200 (30.00) -	BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE CHRYSENE Diethylphthalate Dimethylphthalate INDENO(1,2,3-CD)PYRENE	No Qual Diluted Out
SL-215-SA5B-SS-0.0-0.5MS SL-215-SA5B-SS-0.0-0.5MSD (SL-215-SA5B-SS-0.0-0.5)	DIBENZO(A,H)ANTHRACENE FLUORANTHENE	28 4	23 -	41.00-130.00 26.00-166.00	- -	DIBENZO(A,H)ANTHRACENE FLUORANTHENE	No Qual Diluted Out

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA5B-SS-0.0-0.5MS SL-215-SA5B-SS-0.0-0.5MSD (DUP09-SA5B-QC-122010 SL-212-SA5B-SS-0.0-0.5 SL-213-SA5B-SS-0.0-0.5 SL-214-SA5B-SS-0.0-0.5 SL-215-SA5B-SS-0.0-0.5 SL-216-SA5B-SS-0.0-0.5 SL-217-SA5B-SS-0.0-0.5 SL-255-SA5B-SS-0.0-0.5)	ARSENIC CADMIUM CHROMIUM COPPER LEAD NICKEL THALLIUM VANADIUM ZINC	131 131 133 126 301 129 - 137 194	170 127 156 131 437 143 129 178 222	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - -	ARSENIC CADMIUM CHROMIUM COPPER LEAD NICKEL THALLIUM VANADIUM ZINC	J(all detects) Pb No Qual, >4x
SL-215-SA5B-SS-0.0-0.5MS SL-215-SA5B-SS-0.0-0.5MSD (DUP09-SA5B-QC-122010 SL-212-SA5B-SS-0.0-0.5 SL-213-SA5B-SS-0.0-0.5 SL-214-SA5B-SS-0.0-0.5 SL-215-SA5B-SS-0.0-0.5 SL-216-SA5B-SS-0.0-0.5 SL-217-SA5B-SS-0.0-0.5 SL-255-SA5B-SS-0.0-0.5)	ANTIMONY	38	39	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-215-SA5B-SS-0.0-0.5MS SL-215-SA5B-SS-0.0-0.5MSD (DUP09-SA5B-QC-122010 SL-212-SA5B-SS-0.0-0.5 SL-213-SA5B-SS-0.0-0.5 SL-214-SA5B-SS-0.0-0.5 SL-215-SA5B-SS-0.0-0.5 SL-216-SA5B-SS-0.0-0.5 SL-217-SA5B-SS-0.0-0.5 SL-255-SA5B-SS-0.0-0.5)	MOLYBDENUM	128	131	75.00-125.00	-	MOLYBDENUM	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: DE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA5B-SS-0.0-0.5MS SL-215-SA5B-SS-0.0-0.5MSD (DUP09-SA5B-QC-122010 SL-212-SA5B-SS-0.0-0.5 SL-213-SA5B-SS-0.0-0.5 SL-214-SA5B-SS-0.0-0.5 SL-215-SA5B-SS-0.0-0.5 SL-216-SA5B-SS-0.0-0.5 SL-217-SA5B-SS-0.0-0.5 SL-255-SA5B-SS-0.0-0.5)	BARIUM	128	142	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA5B-SS-0.0-0.5MS SL-215-SA5B-SS-0.0-0.5MSD (DUP09-SA5B-QC-122010 SL-212-SA5B-SS-0.0-0.5 SL-213-SA5B-SS-0.0-0.5 SL-214-SA5B-SS-0.0-0.5 SL-215-SA5B-SS-0.0-0.5 SL-216-SA5B-SS-0.0-0.5 SL-217-SA5B-SS-0.0-0.5 SL-255-SA5B-SS-0.0-0.5)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE	-1088 -38 -3824 -276 -36	386 - -1093 18 43	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	35 (20.00) 28 (20.00) 33 (20.00) 31 (20.00) 24 (20.00)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE	J(all detects) UJ(all non-detects) Al, Ca, Fe, Mg No Qual %R, >4x J(all detects) R(all non-detects) Mn only
SL-215-SA5B-SS-0.0-0.5MS SL-215-SA5B-SS-0.0-0.5MSD (DUP09-SA5B-QC-122010 SL-212-SA5B-SS-0.0-0.5 SL-213-SA5B-SS-0.0-0.5 SL-214-SA5B-SS-0.0-0.5 SL-215-SA5B-SS-0.0-0.5 SL-216-SA5B-SS-0.0-0.5 SL-217-SA5B-SS-0.0-0.5 SL-255-SA5B-SS-0.0-0.5)	PHOSPHORUS	435	-	75.00-125.00	80 (20.00)	PHOSPHORUS	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: DE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-215-SA5B-SS-0.0-0.5DUP (DUP09-SA5B-QC-122010)	ANTIMONY	43	20.00	J (all detects) UJ (all non-detects) Sb, Cd, Mo No Qual OK by difference
SL-212-SA5B-SS-0.0-0.5	BARIUM	22	20.00	
SL-213-SA5B-SS-0.0-0.5	CADMIUM	40	20.00	
SL-214-SA5B-SS-0.0-0.5	CHROMIUM	21	20.00	
SL-215-SA5B-SS-0.0-0.5	COPPER	33	20.00	
SL-216-SA5B-SS-0.0-0.5	LEAD	22	20.00	
SL-217-SA5B-SS-0.0-0.5	MOLYBDENUM	35	20.00	
SL-255-SA5B-SS-0.0-0.5)	NICKEL	21	20.00	
	ZINC	27	20.00	

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-215-SA5B-SS-0.0-0.5DUP (DUP09-SA5B-QC-122010)	HEXAVALENT CHROMIUM	32	20.00	No Qual OK by difference
SL-212-SA5B-SS-0.0-0.5				
SL-213-SA5B-SS-0.0-0.5				
SL-214-SA5B-SS-0.0-0.5				
SL-215-SA5B-SS-0.0-0.5				
SL-216-SA5B-SS-0.0-0.5				
SL-217-SA5B-SS-0.0-0.5				
SL-255-SA5B-SS-0.0-0.5)				

Method: 7471A

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-215-SA5B-SS-0.0-0.5DUP (DUP09-SA5B-QC-122010)	MERCURY	95	20.00	No Qual OK by difference
SL-212-SA5B-SS-0.0-0.5				
SL-213-SA5B-SS-0.0-0.5				
SL-214-SA5B-SS-0.0-0.5				
SL-215-SA5B-SS-0.0-0.5				
SL-216-SA5B-SS-0.0-0.5				
SL-217-SA5B-SS-0.0-0.5				
SL-255-SA5B-SS-0.0-0.5)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03612AQ241325A P03612AY241306A (EB06-SA5B-122010)	Aroclor 5442	58	64	75.00-125.00	-	Aroclor 5432, 5442, 5460	J (all detects) UJ (all non-detects)

Method: 8081A

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03613AY242036A (EB06-SA5B-122010)	ALPHA-BHC	-	153	59.00-146.00	-	ALPHA-BHC	J(all detects)

Method: 8270C

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P6WNLCSY260804 (EB06-SA5B-122010)	BENZOIC ACID	-	-	10.00-69.00	76 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03613AQ240200A P03613AY240141A (DUP09-SA5B-QC-122010 SL -212-SA5B-SS-0.0-0.5 SL -213-SA5B-SS-0.0-0.5 SL -214-SA5B-SS-0.0-0.5 SL -215-SA5B-SS-0.0-0.5 SL -216-SA5B-SS-0.0-0.5 SL -217-SA5B-SS-0.0-0.5 SL -255-SA5B-SS-0.0-0.5)	Aroclor 5442	68	71	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03650AQ240329A (DUP09 -SA5B-QC-122010 SL -212-SA5B-SS-0.0-0.5 SL -213-SA5B-SS-0.0-0.5 SL -214-SA5B-SS-0.0-0.5 SL -215-SA5B-SS-0.0-0.5 SL -216-SA5B-SS-0.0-0.5 SL -217-SA5B-SS-0.0-0.5 SL -255-SA5B-SS-0.0-0.5)	DALAPON	92	-	24.00-89.00	-	DALAPON	J(all detects)
P03650AQ240329A (DUP09 -SA5B-QC-122010 SL -212-SA5B-SS-0.0-0.5 SL -213-SA5B-SS-0.0-0.5 SL -214-SA5B-SS-0.0-0.5 SL -215-SA5B-SS-0.0-0.5 SL -216-SA5B-SS-0.0-0.5 SL -217-SA5B-SS-0.0-0.5 SL -255-SA5B-SS-0.0-0.5)	DINOSEB	9	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P2LILCSQ262128 (DUP09 -SA5B-QC-122010 SL -212-SA5B-SS-0.0-0.5 SL -213-SA5B-SS-0.0-0.5 SL -214-SA5B-SS-0.0-0.5 SL -215-SA5B-SS-0.0-0.5 SL -216-SA5B-SS-0.0-0.5 SL -217-SA5B-SS-0.0-0.5 SL -255-SA5B-SS-0.0-0.5)	PENTACHLOROPHENOL	110	-	35.00-106.00	-	PENTACHLOROPHENOL	J(all detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P36326AQ220952A (DUP09 -SA5B-QC-122010 SL -212-SA5B-SS-0.0-0.5 SL -213-SA5B-SS-0.0-0.5 SL -214-SA5B-SS-0.0-0.5 SL -215-SA5B-SS-0.0-0.5 SL -216-SA5B-SS-0.0-0.5 SL -217-SA5B-SS-0.0-0.5 SL -255-SA5B-SS-0.0-0.5)	ANTIMONY	62	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: PrepDE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P36308CQ222301 (DUP09-SA5B-QC-122010 SL -212-SA5B-SS-0.0-0.5 SL -213-SA5B-SS-0.0-0.5 SL -214-SA5B-SS-0.0-0.5 SL -215-SA5B-SS-0.0-0.5 SL -216-SA5B-SS-0.0-0.5 SL -217-SA5B-SS-0.0-0.5 SL -255-SA5B-SS-0.0-0.5)	IRON	75	-	80.00-120.00	-	IRON	No Qual SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: DE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP09-SA5B-QC-122010	DECACHLOROBIPHENYL	187	20.00-120.00	All Target Analytes	No Qual Diluted Out
SL-213-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	433	20.00-120.00	All Target Analytes	No Qual Diluted Out
SL-213-SA5B-SS-0.0-0.5	TETRACHLORO-M-XYLENE	43	50.00-130.00	All Target Analytes	No Qual Diluted Out
SL-214-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	758	20.00-120.00	All Target Analytes	No Qual Diluted Out
SL-215-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	13	20.00-120.00	All Target Analytes	J(all detects) UJ(all non-detects)
	TETRACHLORO-M-XYLENE	12	50.00-130.00		
SL-216-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	12	20.00-120.00	All Target Analytes	J(all detects) UJ(all non-detects)
	TETRACHLORO-M-XYLENE	21	50.00-130.00		
SL-217-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	No Qual Diluted Out
SL-255-SA5B-SS-0.0-0.5	TETRACHLORO-M-XYLENE	43	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-217-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	134	45.00-120.00	All Target Analytes	No Qual Diluted Out

Method: 8270C SIM

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-217-SA5B-SS-0.0-0.5	Nitrobenzene-d5	156	40.00-130.00	No Affected Compounds	No Qual, One Out

Field Duplicate RPD Report

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: DE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-215-SA5B-SS-0.0-0.5	DUP09-SA5B-QC-122010			
MOISTURE	28.1	34.0	19		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-215-SA5B-SS-0.0-0.5	DUP09-SA5B-QC-122010			
FLUORIDE	2.4	2.6	8	50.00	No Qualifiers Applied

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-215-SA5B-SS-0.0-0.5	DUP09-SA5B-QC-122010			
ALUMINUM	12700	10300	21	50.00	No Qualifiers Applied
BORON	6.28	5.36	16	50.00	
CALCIUM	2770	2360	16	50.00	
IRON	14800	11800	23	50.00	
LITHIUM	14.6	11.7	22	50.00	
MAGNESIUM	3030	2470	20	50.00	
MANGANESE	229	176	26	50.00	
PHOSPHORUS	260	209	22	50.00	
POTASSIUM	2500	2030	21	50.00	
SODIUM	94.3	80.5	16	50.00	
STRONTIUM	19.5	16.5	17	50.00	
TIN	2.33	2.56	9	50.00	
TITANIUM	1070	1150	7	50.00	
Zirconium	2.96	2.67	10	50.00	

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-215-SA5B-SS-0.0-0.5	DUP09-SA5B-QC-122010			
ANTIMONY	0.156	0.129	19	50.00	No Qualifiers Applied
ARSENIC	3.57	3.01	17	50.00	
BARIUM	68.1	62.7	8	50.00	
BERYLLIUM	0.473	0.378	22	50.00	
CADMIUM	0.202	0.204	1	50.00	
CHROMIUM	14.2	13.1	8	50.00	
COBALT	4.54	4.14	9	50.00	
COPPER	7.44	6.91	7	50.00	
LEAD	47.4	39.9	17	50.00	
MOLYBDENUM	0.453	0.425	6	50.00	
NICKEL	9.68	8.84	9	50.00	
SELENIUM	0.196	0.146	29	50.00	
SILVER	0.197	0.153	25	50.00	
THALLIUM	0.222	0.180	21	50.00	
VANADIUM	25.0	22.9	9	50.00	
ZINC	51.0	45.0	12	50.00	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: DE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-215-SA5B-SS-0.0-0.5	DUP09-SA5B-QC-122010			
HEXAVALENT CHROMIUM	0.76	0.86	12	50.00	No Qualifiers Applied

Method: 7471A

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-215-SA5B-SS-0.0-0.5	DUP09-SA5B-QC-122010			
MERCURY	0.0050	0.0107	73	50.00	J(all detects)

Method: 8081A

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-215-SA5B-SS-0.0-0.5	DUP09-SA5B-QC-122010			
4,4'-DDT	1.2 U	3.2	200	50.00	J(all detects) UJ(all non-detects)
BETA-BHC	0.29	1.3	127	50.00	
DELTA-BHC	0.23 U	0.072	200	50.00	

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-215-SA5B-SS-0.0-0.5	DUP09-SA5B-QC-122010			
AROCLOR 1260	8.7	9.9	13	50.00	No Qualifiers Applied
AROCLOR 1254	37	21	55	50.00	J(all detects)
Aroclor 5460	37	16	79	50.00	

Method: 8151A

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-215-SA5B-SS-0.0-0.5	DUP09-SA5B-QC-122010			
MCPP	350 U	130	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-215-SA5B-SS-0.0-0.5	DUP09-SA5B-QC-122010			
ANTHRACENE	4.9	3.9	23	50.00	No Qualifiers Applied
1-METHYLNAPHTHALENE	4.8	11	78	50.00	J(all detects) UJ(all non-detects)
DIBENZO(A,H)ANTHRACENE	9.6	13 U	200	50.00	
NAPHTHALENE	5.1	9.1	56	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: DE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-215-SA5B-SS-0.0- 0.5	DUP09-SA5B-QC- 122010			
BIS(2-ETHYLHEXYL)PHthalate	42	58	32	50.00	No Qualifiers Applied

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-215-SA5B-SS-0.0- 0.5	DUP09-SA5B-QC- 122010			
PH	7.16	7.15	0	50.00	No Qualifiers Applied

Method: ASTM D1498

Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-215-SA5B-SS-0.0- 0.5	DUP09-SA5B-QC- 122010			
Oxidation Reduction Potential	498	558	11		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: DE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 314.0

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB06-SA5B-122010	PERCHLORATE	J	1.3	2.0	PQL	ug/L	J (all detects)

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB06-SA5B-122010	MANGANESE	J	0.00097	0.0050	PQL	mg/L	J (all detects)

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB06-SA5B-122010	LEAD	J	0.000054	0.0010	PQL	mg/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB06-SA5B-122010	1-METHYLNAPHTHALENE	J	0.014	0.050	PQL	ug/L	J (all detects)
	2-METHYLNAPHTHALENE	J	0.019	0.050	PQL	ug/L	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.26	1.0	PQL	ug/L	
	Butylbenzylphthalate	J	0.12	1.0	PQL	ug/L	
	Diethylphthalate	J	0.056	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.27	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.12	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.042	0.050	PQL	ug/L	

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA5B-QC-122010	BORON	J	5.36	7.50	PQL	mg/Kg	J (all detects)
	SODIUM	J	80.5	150	PQL	mg/Kg	
	TIN	J	2.56	15.0	PQL	mg/Kg	
	Zirconium	J	2.67	7.50	PQL	mg/Kg	
SL-212-SA5B-SS-0.0-0.5	SODIUM	J	120	121	PQL	mg/Kg	J (all detects)
	TIN	J	2.96	12.1	PQL	mg/Kg	
	Zirconium	J	2.96	6.04	PQL	mg/Kg	
SL-213-SA5B-SS-0.0-0.5	TIN	J	2.10	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.11	5.51	PQL	mg/Kg	
SL-214-SA5B-SS-0.0-0.5	TIN	J	2.88	12.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.20	6.16	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: DE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-215-SA5B-SS-0.0-0.5	BORON	J	6.28	6.62	PQL	mg/Kg	J (all detects)
	SODIUM	J	94.3	132	PQL	mg/Kg	
	TIN	J	2.33	13.2	PQL	mg/Kg	
	Zirconium	J	2.96	6.62	PQL	mg/Kg	
SL-216-SA5B-SS-0.0-0.5	SODIUM	J	96.3	120	PQL	mg/Kg	J (all detects)
	TIN	J	2.45	12.0	PQL	mg/Kg	
	Zirconium	J	3.22	6.01	PQL	mg/Kg	
SL-217-SA5B-SS-0.0-0.5	TIN	J	3.10	13.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.91	6.79	PQL	mg/Kg	
SL-255-SA5B-SS-0.0-0.5	SODIUM	J	78.5	122	PQL	mg/Kg	J (all detects)
	TIN	J	2.71	12.2	PQL	mg/Kg	
	Zirconium	J	4.80	6.09	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA5B-QC-122010	ANTIMONY	J	0.129	0.291	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.146	0.583	PQL	mg/Kg	
SL-212-SA5B-SS-0.0-0.5	SELENIUM	J	0.318	0.469	PQL	mg/Kg	J (all detects)
SL-213-SA5B-SS-0.0-0.5	ANTIMONY	J	0.204	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.216	0.437	PQL	mg/Kg	
SL-214-SA5B-SS-0.0-0.5	SELENIUM	J	0.302	0.517	PQL	mg/Kg	J (all detects)
SL-215-SA5B-SS-0.0-0.5	ANTIMONY	J	0.156	0.278	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.196	0.556	PQL	mg/Kg	
SL-216-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0826	0.243	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.164	0.485	PQL	mg/Kg	
	SILVER	J	0.0874	0.121	PQL	mg/Kg	
SL-255-SA5B-SS-0.0-0.5	ANTIMONY	J	0.126	0.241	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.198	0.482	PQL	mg/Kg	
	SILVER	J	0.0823	0.121	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA5B-QC-122010	HEXAVALENT CHROMIUM	J	0.86	1.5	PQL	mg/Kg	J (all detects)
SL-213-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.80	1.1	PQL	mg/Kg	J (all detects)
SL-215-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.76	1.4	PQL	mg/Kg	J (all detects)
SL-216-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.68	1.2	PQL	mg/Kg	J (all detects)
SL-217-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	1.0	1.4	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: DE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA5B-QC-122010	MERCURY	J	0.0107	0.145	PQL	mg/Kg	J (all detects)
SL-215-SA5B-SS-0.0-0.5	MERCURY	J	0.0050	0.138	PQL	mg/Kg	J (all detects)
SL-216-SA5B-SS-0.0-0.5	MERCURY	J	0.0214	0.116	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA5B-QC-122010	DELTA-BHC	J	0.072	0.25	PQL	ug/Kg	J (all detects)
SL-212-SA5B-SS-0.0-0.5	DELTA-BHC	J	0.097	0.20	PQL	ug/Kg	J (all detects)
SL-213-SA5B-SS-0.0-0.5	BETA-BHC	J	0.57	0.93	PQL	ug/Kg	J (all detects)
SL-216-SA5B-SS-0.0-0.5	4,4'-DDT	J	0.34	0.42	PQL	ug/Kg	J (all detects)
	BETA-BHC	J	0.12	0.21	PQL	ug/Kg	
SL-255-SA5B-SS-0.0-0.5	ALPHA-BHC	J	0.058	0.20	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-213-SA5B-SS-0.0-0.5	Aroclor 5460	J	36	37	PQL	ug/Kg	J (all detects)
SL-216-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.9	2.1	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.5	2.1	PQL	ug/Kg	
	Aroclor 5460	J	3.1	4.1	PQL	ug/Kg	
SL-217-SA5B-SS-0.0-0.5	Aroclor 5460	J	45	46	PQL	ug/Kg	J (all detects)
SL-255-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.0	2.1	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.76	2.1	PQL	ug/Kg	
	Aroclor 5460	J	1.5	4.1	PQL	ug/Kg	

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA5B-QC-122010	MCP	J	130	380	PQL	ug/Kg	J (all detects)
SL-216-SA5B-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.17	0.21	PQL	ug/Kg	J (all detects)
SL-217-SA5B-SS-0.0-0.5	DICHLOROPROP	J	1.5	2.4	PQL	ug/Kg	J (all detects)
SL-255-SA5B-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.20	0.21	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: DE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA5B-QC-122010	2-METHYLNAPHTHALENE	J	29	250	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	28	250	PQL	ug/Kg	
	BENZO(A)PYRENE	J	60	250	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	180	250	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	86	250	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	58	510	PQL	ug/Kg	
	CHRYSENE	J	120	250	PQL	ug/Kg	
	FLUORANTHENE	J	64	250	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	100	250	PQL	ug/Kg	
	PHENANTHRENE	J	45	250	PQL	ug/Kg	
	PYRENE	J	53	250	PQL	ug/Kg	
SL-212-SA5B-SS-0.0-0.5	ANTHRACENE	J	37	200	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	160	200	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	100	200	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	180	400	PQL	ug/Kg	
	CARBAZOLE	J	27	200	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	70	200	PQL	ug/Kg	
	DIBENZOFURAN	J	100	200	PQL	ug/Kg	
	Di-n-octylphthalate	J	66	200	PQL	ug/Kg	
SL-213-SA5B-SS-0.0-0.5	HEXACHLOROBENZENE	J	100	200	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	20	190	PQL	ug/Kg	
	DIBENZOFURAN	J	26	190	PQL	ug/Kg	
	Di-n-butylphthalate	J	22	190	PQL	ug/Kg	
	HEXACHLOROBENZENE	J	25	190	PQL	ug/Kg	
SL-214-SA5B-SS-0.0-0.5	INDENO(1,2,3-CD)PYRENE	J	150	190	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1100	2200	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1500	2200	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	330	4300	PQL	ug/Kg	
	CHRYSENE	J	1900	2200	PQL	ug/Kg	
	FLUORANTHENE	J	650	2200	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1700	2200	PQL	ug/Kg	
	PHENANTHRENE	J	330	2200	PQL	ug/Kg	
SL-215-SA5B-SS-0.0-0.5	PYRENE	J	550	2200	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	42	460	PQL	ug/Kg	
SL-216-SA5B-SS-0.0-0.5	ANTHRACENE	J	27	210	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	120	410	PQL	ug/Kg	
SL-217-SA5B-SS-0.0-0.5	Butylbenzylphthalate	J	87	230	PQL	ug/Kg	J (all detects)
	CARBAZOLE	J	60	230	PQL	ug/Kg	
SL-255-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	29	410	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA5B-QC-122010	1-METHYLNAPHTHALENE	J	11	13	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	3.9	13	PQL	ug/Kg	
	NAPHTHALENE	J	9.1	13	PQL	ug/Kg	
SL-212-SA5B-SS-0.0-0.5	ACENAPHTHENE	J	6.7	10	PQL	ug/Kg	J (all detects)
	FLUORENE	J	7.3	10	PQL	ug/Kg	
SL-213-SA5B-SS-0.0-0.5	ACENAPHTHENE	J	7.1	9.4	PQL	ug/Kg	J (all detects)
	FLUORENE	J	4.0	9.4	PQL	ug/Kg	
SL-214-SA5B-SS-0.0-0.5	ANTHRACENE	J	25	110	PQL	ug/Kg	J (all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE047

Laboratory: LL

EDD Filename: DE047_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-215-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	4.8	12	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	5.3	12	PQL	ug/Kg	
	ANTHRACENE	J	4.9	12	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	9.6	12	PQL	ug/Kg	
	NAPHTHALENE	J	5.1	12	PQL	ug/Kg	
SL-216-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.95	2.1	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.3	2.1	PQL	ug/Kg	
	ANTHRACENE	J	0.47	2.1	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.1	2.1	PQL	ug/Kg	
	NAPHTHALENE	J	1.3	2.1	PQL	ug/Kg	
SL-255-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.5	2.1	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.8	2.1	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.6	2.1	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.0	2.1	PQL	ug/Kg	
	NAPHTHALENE	J	1.4	2.1	PQL	ug/Kg	

LDC #: 25337L4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE047

ADR

Laboratory: Lancaster Laboratories

Date: 5/5/11

Page: 1 of 1

Reviewer: CR

2nd Reviewer: C

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	ICB/CB hits - No Qual
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Pb, Mg, Ti) > 4x DRPD out
VII.	Duplicate Sample Analysis	N	Dup (Sb, Cd, Mn, Hg, Se & RL)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba - 16% : J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	SW	EB = 2

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	DUP09-SA5B-QC-122010	11	SL-215-SA5B-SS-0.0-0.5MSD	21		31	
2	EB06-SA5B-122010	12	SL-215-SA5B-SS-0.0-0.5DUP	22		32	
3	SL-212-SA5B-SS-0.0-0.5	13		23		33	
4	SL-213-SA5B-SS-0.0-0.5	14		24		34	
5	SL-214-SA5B-SS-0.0-0.5	15		25		35	
6	SL-215-SA5B-SS-0.0-0.5	16		26		36	
7	SL-216-SA5B-SS-0.0-0.5	17		27		37	
8	SL-217-SA5B-SS-0.0-0.5	18		28		38	
9	SL-255-SA5B-SS-0.0-0.5	19		29		39	
10	SL-215-SA5B-SS-0.0-0.5MS	20		30		40	

Notes: _____

Y N N/A Were field blanks identified in this SDG?

	Y	N	N/A
Were field blanks identified in this SDG?			
Were target analytes detected in the field blanks?			

	Y	N	N/A
Were target analytes detected in the field blanks?			

Blank units: ug/L Associated sample units: mg/Kg

Sampling date: 12/20/10 Soil factor applied 100x

Field blank type: (circle one) Field Blank / Rinsate / Other: _____

Associated Samples: All Soil

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

SAMPLE DELIVERY GROUP

DE048

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	3050B	6010B	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	3050B	6020	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	3060A	7199	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	3546	1625C	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	3550B	8015B	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	3550B	8015M	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	3550B	8082	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	3550B	8270C	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	3550B	8270C SIM	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	5035	8015M	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	5035	8260B	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	5035	8260B SIM	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	8330	8330A	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	Gen Prep	9045M	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	METHOD	300.0	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	METHOD	314.0	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	METHOD	7471A	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	METHOD	8015B	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	METHOD	8015M	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	METHOD	8315A	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0	6172090	N	METHOD	9012B	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	3050B	6010B	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	3050B	6020	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	3060A	7199	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	3546	1625C	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	3550B	8015B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	3550B	8015M	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	3550B	8082	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	3550B	8270C	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	3550B	8270C SIM	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	5035	8015M	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	5035	8260B	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	5035	8260B SIM	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	8330	8330A	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	METHOD	300.0	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	METHOD	314.0	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	METHOD	7471A	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	METHOD	8015B	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	METHOD	8015M	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	METHOD	8315A	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MS	6172091	MS	METHOD	9012B	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MSD	6172092	MSD	3050B	6010B	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MSD	6172092	MSD	3050B	6020	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MSD	6172092	MSD	3546	1625C	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MSD	6172092	MSD	3550B	8015B	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MSD	6172092	MSD	3550B	8015M	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MSD	6172092	MSD	3550B	8082	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MSD	6172092	MSD	3550B	8270C	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MSD	6172092	MSD	3550B	8270C SIM	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MSD	6172092	MSD	5035	8015M	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MSD	6172092	MSD	5035	8260B	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MSD	6172092	MSD	5035	8260B SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MSD	6172092	MSD	8330	8330A	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MSD	6172092	MSD	METHOD	7471A	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MSD	6172092	MSD	METHOD	8015B	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MSD	6172092	MSD	METHOD	8015M	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0MSD	6172092	MSD	METHOD	8315A	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0DUP	6172093	DUP	3050B	6010B	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0DUP	6172093	DUP	3050B	6020	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0DUP	6172093	DUP	3060A	7199	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0DUP	6172093	DUP	Gen Prep	9045M	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0DUP	6172093	DUP	METHOD	300.0	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0DUP	6172093	DUP	METHOD	314.0	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0DUP	6172093	DUP	METHOD	7471A	III
20-Dec-2010	SL-044-SA5B-SB-4.0-5.0DUP	6172093	DUP	METHOD	9012B	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	3050B	6010B	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	3050B	6020	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	3060A	7199	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	3546	1625C	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	3550B	8015B	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	3550B	8015M	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	3550B	8082	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	3550B	8270C	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	3550B	8270C SIM	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	5035	8015M	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	5035	8260B	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	5035	8260B SIM	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	8330	8330A	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	Gen Prep	9045M	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	METHOD	300.0	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	METHOD	314.0	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	METHOD	7471A	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	METHOD	8015B	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	METHOD	8015M	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	METHOD	8315A	III
20-Dec-2010	SL-044-SA5B-SB-7.0-8.0	6172094	N	METHOD	9012B	III
20-Dec-2010	TB-122010	6172096	TB	5030B	8015M	III
20-Dec-2010	TB-122010	6172096	TB	5030B	8260B	III
20-Dec-2010	TB-122010	6172096	TB	5030B	8260B SIM	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	3050B	6010B	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	3050B	6020	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	3060A	7199	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	3546	1625C	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	3550B	8015B	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	3550B	8015M	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	3550B	8082	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	3550B	8270C	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	3550B	8270C SIM	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	5035	8015M	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	5035	8260B	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	5035	8260B SIM	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	8330	8330A	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	Gen Prep	9045M	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	METHOD	300.0	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	METHOD	314.0	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	METHOD	7471A	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	METHOD	8015B	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	METHOD	8015M	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	METHOD	8315A	III
20-Dec-2010	SL-045-SA5B-SB-3.0-4.0	6172095	N	METHOD	9012B	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	3050B	6010B	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	3050B	6020	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	3060A	7199	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	3546	1625C	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	3550B	8015B	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	3550B	8015M	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	3550B	8082	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	3550B	8270C	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	3550B	8270C SIM	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	5035	8015M	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	5035	8260B	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	5035	8260B SIM	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	8330	8330A	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	Gen Prep	9045M	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	METHOD	300.0	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	METHOD	314.0	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	METHOD	7471A	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	METHOD	8015B	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	METHOD	8015M	III
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	METHOD	8315A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	DUP14-SA5B-QC-122010	6172089	FD	METHOD	9012B	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: DUP14-SA5B-QC-122010

Collected: 12/20/2010 2:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.89	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	7.4		0.89	MDL	1.7	PQL	mg/Kg	J	FD

Sample ID: SL-044-SA5B-SB-4.0-5.0

Collected: 12/20/2010 11:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.4		0.90	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.6	J	0.90	MDL	1.7	PQL	mg/Kg	J	Z, FD

Sample ID: SL-044-SA5B-SB-7.0-8.0

Collected: 12/20/2010 11:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.91	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.3	J	0.91	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-045-SA5B-SB-3.0-4.0

Collected: 12/20/2010 2:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: DUP14-SA5B-QC-122010

Collected: 12/20/2010 2:39:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	293		0.614	MDL	11.0	PQL	mg/Kg	J	FD
TIN	2.50	J	1.10	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: DUP14-SA5B-QC-122010

Collected: 12/20/2010 2:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	6.32		0.976	MDL	5.48	PQL	mg/Kg	J	FD
SODIUM	102	J	40.9	MDL	110	PQL	mg/Kg	J	Z
Zirconium	1.50	J	0.921	MDL	5.48	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

7/5/2011 10:47:52 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-044-SA5B-SB-4.0-5.0

Collected: 12/20/2010 11:38:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.987	U	0.987	MDL	5.55	PQL	mg/Kg	UJ	FD
PHOSPHORUS	128		0.621	MDL	11.1	PQL	mg/Kg	J	FD
TIN	2.45	J	1.11	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-044-SA5B-SB-4.0-5.0

Collected: 12/20/2010 11:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	109	J	41.4	MDL	111	PQL	mg/Kg	J	Z
Zirconium	2.04	J	0.932	MDL	5.55	PQL	mg/Kg	J	Z

Sample ID: SL-044-SA5B-SB-7.0-8.0

Collected: 12/20/2010 11:50:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.35	J	1.10	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-044-SA5B-SB-7.0-8.0

Collected: 12/20/2010 11:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.96	J	0.982	MDL	5.52	PQL	mg/Kg	J	Z
SODIUM	101	J	41.2	MDL	110	PQL	mg/Kg	J	Z
Zirconium	1.09	J	0.927	MDL	5.52	PQL	mg/Kg	J	Z

Sample ID: SL-045-SA5B-SB-3.0-4.0

Collected: 12/20/2010 2:24:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.50	J	1.08	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-045-SA5B-SB-3.0-4.0

Collected: 12/20/2010 2:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	94.9	J	40.5	MDL	108	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

7/5/2011 10:47:53 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP14-SA5B-QC-122010

Collected: 12/20/2010 2:39:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.153	J	0.0434	MDL	0.434	PQL	mg/Kg	J	Z, Q, FD

Sample ID: DUP14-SA5B-QC-122010

Collected: 12/20/2010 2:39:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.11		0.0543	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: DUP14-SA5B-QC-122010

Collected: 12/20/2010 2:39:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	128		0.117	MDL	0.434	PQL	mg/Kg	J	A

Sample ID: DUP14-SA5B-QC-122010

Collected: 12/20/2010 2:39:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.262		0.0652	MDL	0.217	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.45		0.0652	MDL	0.434	PQL	mg/Kg	J	Q
BERYLLIUM	0.713		0.0174	MDL	0.109	PQL	mg/Kg	J	Q
CADMIUM	0.208		0.0391	MDL	0.109	PQL	mg/Kg	J	Q, FD
CHROMIUM	26.3		0.130	MDL	0.434	PQL	mg/Kg	J	Q, A
COBALT	8.10		0.0217	MDL	0.109	PQL	mg/Kg	J	Q, A
COPPER	10.1		0.0717	MDL	0.434	PQL	mg/Kg	J	Q
LEAD	9.16		0.0113	MDL	0.217	PQL	mg/Kg	J	Q, A
NICKEL	14.9		0.109	MDL	0.434	PQL	mg/Kg	J	Q
SILVER	0.0516	J	0.0130	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.409		0.0326	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	52.4		0.0239	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-044-SA5B-SB-4.0-5.0

Collected: 12/20/2010 11:38:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0786	J	0.0444	MDL	0.444	PQL	mg/Kg	J	Z, Q, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-044-SA5B-SB-4.0-5.0

Collected: 12/20/2010 11:38:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.735		0.0555	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-044-SA5B-SB-4.0-5.0

Collected: 12/20/2010 11:38:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	128		0.120	MDL	0.444	PQL	mg/Kg	J	A

Sample ID: SL-044-SA5B-SB-4.0-5.0

Collected: 12/20/2010 11:38:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.173	J	0.0665	MDL	0.222	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.26		0.0665	MDL	0.444	PQL	mg/Kg	J	Q
BERYLLIUM	0.851		0.0177	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	0.0646	J	0.0399	MDL	0.111	PQL	mg/Kg	J	Z, Q, FD
CHROMIUM	20.1		0.133	MDL	0.444	PQL	mg/Kg	J	Q, A
COBALT	6.82		0.0222	MDL	0.111	PQL	mg/Kg	J	Q, A
COPPER	6.61		0.0732	MDL	0.444	PQL	mg/Kg	J	Q
LEAD	6.38		0.0115	MDL	0.222	PQL	mg/Kg	J	Q, A
NICKEL	12.3		0.111	MDL	0.444	PQL	mg/Kg	J	Q
SILVER	0.0622	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.300		0.0333	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	42.0		0.0244	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-044-SA5B-SB-7.0-8.0

Collected: 12/20/2010 11:50:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0465	J	0.0437	MDL	0.437	PQL	mg/Kg	J	Z, Q

Sample ID: SL-044-SA5B-SB-7.0-8.0

Collected: 12/20/2010 11:50:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.556		0.0546	MDL	0.109	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-044-SA5B-SB-7.0-8.0

Collected: 12/20/2010 11:50:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	94.8		0.118	MDL	0.437	PQL	mg/Kg	J	A

Sample ID: SL-044-SA5B-SB-7.0-8.0

Collected: 12/20/2010 11:50:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0961	J	0.0656	MDL	0.219	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.80		0.0656	MDL	0.437	PQL	mg/Kg	J	Q
BERYLLIUM	0.526		0.0175	MDL	0.109	PQL	mg/Kg	J	Q
CADMIUM	0.0689	J	0.0393	MDL	0.109	PQL	mg/Kg	J	Z, Q
CHROMIUM	19.0		0.131	MDL	0.437	PQL	mg/Kg	J	Q, A
COBALT	4.10		0.0219	MDL	0.109	PQL	mg/Kg	J	Q, A
COPPER	5.03		0.0721	MDL	0.437	PQL	mg/Kg	J	Q
LEAD	6.07		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, A
NICKEL	9.11		0.109	MDL	0.437	PQL	mg/Kg	J	Q
SILVER	0.0349	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.264		0.0328	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	38.8		0.0240	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-045-SA5B-SB-3.0-4.0

Collected: 12/20/2010 2:24:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.117	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z, Q

Sample ID: SL-045-SA5B-SB-3.0-4.0

Collected: 12/20/2010 2:24:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.683		0.0548	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-045-SA5B-SB-3.0-4.0

Collected: 12/20/2010 2:24:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	132		0.118	MDL	0.438	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-045-SA5B-SB-3.0-4.0

Collected: 12/20/2010 2:24:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.152	J	0.0657	MDL	0.219	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.60		0.0657	MDL	0.438	PQL	mg/Kg	J	Q
BERYLLIUM	0.655		0.0175	MDL	0.110	PQL	mg/Kg	J	Q
CADMIUM	0.179		0.0394	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	24.6		0.131	MDL	0.438	PQL	mg/Kg	J	Q, A
COBALT	7.75		0.0219	MDL	0.110	PQL	mg/Kg	J	Q, A
COPPER	9.82		0.0723	MDL	0.438	PQL	mg/Kg	J	Q
LEAD	7.89		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, A
NICKEL	15.1		0.110	MDL	0.438	PQL	mg/Kg	J	Q
SILVER	0.0315	J	0.0131	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.426		0.0329	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	51.3		0.0241	MDL	0.110	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: DUP14-SA5B-QC-122010

Collected: 12/20/2010 2:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	1.1	J	0.22	MDL	1.1	PQL	mg/Kg	J	FD

Sample ID: SL-044-SA5B-SB-4.0-5.0

Collected: 12/20/2010 11:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z, FD

Sample ID: SL-044-SA5B-SB-7.0-8.0

Collected: 12/20/2010 11:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.58	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-045-SA5B-SB-3.0-4.0

Collected: 12/20/2010 2:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.43	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Method Category: SVOA

Method: 1625C

Matrix: SO

Sample ID: SL-044-SA5B-SB-4.0-5.0

Collected: 12/20/2010 11:38:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	18.9	U	18.9	MDL	37.7	PQL	ng/Kg	UJ	Q

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: DUP14-SA5B-QC-122010

Collected: 12/20/2010 2:39:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	3.3		0.45	MDL	1.3	PQL	mg/Kg	J	FD
EFH (C30-C40)	9.1		0.45	MDL	1.3	PQL	mg/Kg	J	FD

Sample ID: SL-044-SA5B-SB-4.0-5.0

Collected: 12/20/2010 11:38:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.8		0.45	MDL	1.4	PQL	mg/Kg	J	Q, FD
EFH (C30-C40)	4.0		0.45	MDL	1.4	PQL	mg/Kg	J	Q, Q, Q, FD

Sample ID: SL-044-SA5B-SB-7.0-8.0

Collected: 12/20/2010 11:50:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.1	J	0.91	MDL	2.7	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: DUP14-SA5B-QC-122010

Collected: 12/20/2010 2:39:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	4.1		0.37	MDL	1.9	PQL	ug/Kg	J	L, FD
AROCLOR 1260	0.77	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, L, FD
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: DUP14-SA5B-QC-122010

Collected: 12/20/2010 2:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-044-SA5B-SB-4.0-5.0

Collected: 12/20/2010 11:38:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	FD
AROCLOR 1260	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	FD
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-044-SA5B-SB-7.0-8.0

Collected: 12/20/2010 11:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L

Sample ID: SL-045-SA5B-SB-3.0-4.0

Collected: 12/20/2010 2:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: DUP14-SA5B-QC-122010

Collected: 12/20/2010 2:39:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	34	J	19	MDL	370	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-044-SA5B-SB-4.0-5.0

Collected: 12/20/2010 11:38:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	380	PQL	ug/Kg	UJ	L
BENZIDINE	1300	U	1300	MDL	3800	PQL	ug/Kg	UJ	Q

Sample ID: SL-044-SA5B-SB-7.0-8.0

Collected: 12/20/2010 11:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	380	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	19	MDL	380	PQL	ug/Kg	J	Z
Di-n-butylphthalate	26	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-045-SA5B-SB-3.0-4.0

Collected: 12/20/2010 2:24:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-044-SA5B-SB-7.0-8.0

Collected: 12/20/2010 11:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.84	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.49	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.5	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A

Matrix: SO

Sample ID: DUP14-SA5B-QC-122010

Collected: 12/20/2010 2:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	670	U	670	MDL	1700	PQL	ug/Kg	UJ	S, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA								
Method:	8315A	Matrix:	SO						

Sample ID: SL-044-SA5B-SB-4.0-5.0

Collected: 12/20/2010 11:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	9800		680	MDL	1700	PQL	ug/Kg	J	Q, FD

Method Category:	VOA								
Method:	8015B	Matrix:	SO						

Sample ID: DUP14-SA5B-QC-122010

Collected: 12/20/2010 2:39:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	110	U	110	MDL	560	PQL	ug/Kg	UJ	FD

Sample ID: SL-044-SA5B-SB-4.0-5.0

Collected: 12/20/2010 11:38:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	310	J	110	MDL	570	PQL	ug/Kg	J	Z, FD

Sample ID: SL-044-SA5B-SB-7.0-8.0

Collected: 12/20/2010 11:50:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	170	J	110	MDL	570	PQL	ug/Kg	J	Z

Method Category:	VOA								
Method:	8260B	Matrix:	SO						

Sample ID: DUP14-SA5B-QC-122010

Collected: 12/20/2010 2:39:00

Analysis Type: RES

Dilution: 0.76

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	1.0	U	1.0	MDL	6.8	PQL	ug/Kg	UJ	FD
ACETONE	6.6	J	5.7	MDL	6.8	PQL	ug/Kg	J	Z, FD
METHYLENE CHLORIDE	0.39	J	0.20	MDL	3.4	PQL	ug/Kg	U	B
TOLUENE	0.1	J	0.07	MDL	3.4	PQL	ug/Kg	UJ	B, FD

Sample ID: SL-044-SA5B-SB-4.0-5.0

Collected: 12/20/2010 11:38:00

Analysis Type: RES

Dilution: 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	3.0	J	1.3	MDL	8.3	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-044-SA5B-SB-4.0-5.0

Collected: 12/20/2010 11:38:00

Analysis Type: RES

Dilution: 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	31		7.0	MDL	8.3	PQL	ug/Kg	J	FD
Chlorotrifluoroethylene	0.52	U	0.52	MDL	5.2	PQL	ug/Kg	UJ	Q
METHYLENE CHLORIDE	0.54	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.08	U	0.08	MDL	4.2	PQL	ug/Kg	UJ	FD

Sample ID: SL-044-SA5B-SB-7.0-8.0

Collected: 12/20/2010 11:50:00

Analysis Type: RES

Dilution: 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	2.6	J	1.3	MDL	8.2	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.63	J	0.25	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-045-SA5B-SB-3.0-4.0

Collected: 12/20/2010 2:24:00

Analysis Type: RES

Dilution: 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.2	J	0.25	MDL	4.2	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE048

Method Blank Outlier Report

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35708DB220215	12/30/2010 2:15:00 AM	MAGNESIUM	3.33 mg/Kg	DUP14-SA5B-QC-122010 SL-044-SA5B-SB-4.0-5.0 SL-044-SA5B-SB-7.0-8.0 SL-045-SA5B-SB-3.0-4.0
P35708DB221422	1/1/2011 2:22:00 PM	PHOSPHORUS TIN	1.56 mg/Kg 1.37 mg/Kg	DUP14-SA5B-QC-122010 SL-044-SA5B-SB-4.0-5.0 SL-044-SA5B-SB-7.0-8.0 SL-045-SA5B-SB-3.0-4.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP14-SA5B-QC-122010(REA)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-044-SA5B-SB-4.0-5.0(REA)	TIN	2.45 mg/Kg	2.45U mg/Kg
SL-044-SA5B-SB-7.0-8.0(REA)	TIN	2.35 mg/Kg	2.35U mg/Kg
SL-045-SA5B-SB-3.0-4.0(REA)	TIN	2.50 mg/Kg	2.50U mg/Kg

Method: 6020

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35726AB221103A	12/31/2010 11:03:00 AM	COBALT	0.0223 mg/Kg	DUP14-SA5B-QC-122010 SL-044-SA5B-SB-4.0-5.0 SL-044-SA5B-SB-7.0-8.0 SL-045-SA5B-SB-3.0-4.0

Method: 8260B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB26B211814A	12/22/2010 6:14:00 PM	METHYLENE CHLORIDE TOLUENE	0.55 ug/Kg 0.09 ug/Kg	DUP14-SA5B-QC-122010 SL-044-SA5B-SB-4.0-5.0 SL-044-SA5B-SB-7.0-8.0 SL-045-SA5B-SB-3.0-4.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP14-SA5B-QC-122010(RES)	METHYLENE CHLORIDE	0.39 ug/Kg	3.4U ug/Kg
DUP14-SA5B-QC-122010(RES)	TOLUENE	0.1 ug/Kg	3.4U ug/Kg
SL-044-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.54 ug/Kg	4.2U ug/Kg
SL-044-SA5B-SB-7.0-8.0(RES)	METHYLENE CHLORIDE	0.63 ug/Kg	4.1U ug/Kg
SL-045-SA5B-SB-3.0-4.0(RES)	METHYLENE CHLORIDE	1.2 ug/Kg	4.2U ug/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-044-SA5B-SB-4.0-5.0MS (DUP14-SA5B-QC-122010 SL-044-SA5B-SB-4.0-5.0 SL-044-SA5B-SB-7.0-8.0 SL-045-SA5B-SB-3.0-4.0)	FLUORIDE	77	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Method: 8315A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-044-SA5B-SB-4.0-5.0MS SL-044-SA5B-SB-4.0-5.0MSD (SL-044-SA5B-SB-4.0-5.0)	FORMALDEHYDE	62	70	80.00-120.00	-	FORMALDEHYDE	J (all detects) UJ (all non-detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-044-SA5B-SB-4.0-5.0MS SL-044-SA5B-SB-4.0-5.0MSD (SL-044-SA5B-SB-4.0-5.0)	EFH (C30-C40)	17	-23	49.00-123.00	29 (20.00)	EFH (C30-C40)	J (all detects) R (all non-detects)
SL-044-SA5B-SB-4.0-5.0MSD (SL-044-SA5B-SB-4.0-5.0)	EFH (C21-C30)	-	41	49.00-123.00	-	EFH (C21-C30)	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-044-SA5B-SB-4.0-5.0MS SL-044-SA5B-SB-4.0-5.0MSD (DUP14-SA5B-QC-122010 SL-044-SA5B-SB-4.0-5.0 SL-044-SA5B-SB-7.0-8.0 SL-045-SA5B-SB-3.0-4.0)	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	201 139 178 188 137 142 222 167 177 184 248 310	203 142 176 200 145 149 216 175 178 167 260 273	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - - - - -	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J (all detects) Zn No Qual, >4x
SL-044-SA5B-SB-4.0-5.0MS SL-044-SA5B-SB-4.0-5.0MSD (DUP14-SA5B-QC-122010 SL-044-SA5B-SB-4.0-5.0 SL-044-SA5B-SB-7.0-8.0 SL-045-SA5B-SB-3.0-4.0)	ANTIMONY	69	74	75.00-125.00	-	ANTIMONY	J (all detects) UJ (all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-044-SA5B-SB-4.0-5.0MS SL-044-SA5B-SB-4.0-5.0MSD (DUP14-SA5B-QC-122010 SL-044-SA5B-SB-4.0-5.0 SL-044-SA5B-SB-7.0-8.0 SL-045-SA5B-SB-3.0-4.0)	SELENIUM	130	132	75.00-125.00	-	SELENIUM	J(all detects)
SL-044-SA5B-SB-4.0-5.0MS SL-044-SA5B-SB-4.0-5.0MSD (DUP14-SA5B-QC-122010 SL-044-SA5B-SB-4.0-5.0 SL-044-SA5B-SB-7.0-8.0 SL-045-SA5B-SB-3.0-4.0)	MOLYBDENUM	170	175	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-044-SA5B-SB-4.0-5.0MS SL-044-SA5B-SB-4.0-5.0MSD (DUP14-SA5B-QC-122010 SL-044-SA5B-SB-4.0-5.0 SL-044-SA5B-SB-7.0-8.0 SL-045-SA5B-SB-3.0-4.0)	BARIUM	485	442	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-044-SA5B-SB-4.0-5.0MS SL-044-SA5B-SB-4.0-5.0MSD (DUP14-SA5B-QC-122010 SL-044-SA5B-SB-4.0-5.0 SL-044-SA5B-SB-7.0-8.0 SL-045-SA5B-SB-3.0-4.0)	ALUMINUM CALCIUM TITANIUM	972 130 232	1060 - 206	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ALUMINUM CALCIUM TITANIUM	No Qual, >4x
SL-044-SA5B-SB-4.0-5.0MS SL-044-SA5B-SB-4.0-5.0MSD (DUP14-SA5B-QC-122010 SL-044-SA5B-SB-4.0-5.0 SL-044-SA5B-SB-7.0-8.0 SL-045-SA5B-SB-3.0-4.0)	IRON MAGNESIUM	-1116 29	-522 38	75.00-125.00 75.00-125.00	- -	IRON MAGNESIUM	No Qual, >4x
SL-044-SA5B-SB-4.0-5.0MS (DUP14-SA5B-QC-122010 SL-044-SA5B-SB-4.0-5.0 SL-044-SA5B-SB-7.0-8.0 SL-045-SA5B-SB-3.0-4.0)	MANGANESE	73	-	75.00-125.00	-	MANGANESE	No Qual, >4x

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-044-SA5B-SB-4.0-5.0MS (SL-044-SA5B-SB-4.0-5.0)	BENZIDINE	34	-	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-044-SA5B-SB-4.0-5.0MS SL-044-SA5B-SB-4.0-5.0MSD (SL-044-SA5B-SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	69	69	70.00-130.00	-	N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Method: 8260B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-044-SA5B-SB-4.0-5.0MS SL-044-SA5B-SB-4.0-5.0MSD (SL-044-SA5B-SB-4.0-5.0)	Chlorotrifluoroethylene	52	46	70.00-130.00	-	Chlorotrifluoroethylene	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-044-SA5B-SB-4.0-5.0DUP (DUP14 -SA5B-QC-122010 SL -044-SA5B-SB-4.0-5.0 SL -044-SA5B-SB-7.0-8.0 SL -045-SA5B-SB-3.0-4.0)	FLUORIDE	26	20.00	No Qual OK by difference

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-044-SA5B-SB-4.0-5.0DUP (DUP14 -SA5B-QC-122010 SL -044-SA5B-SB-4.0-5.0 SL -044-SA5B-SB-7.0-8.0 SL -045-SA5B-SB-3.0-4.0)	CADMIUM	32	20.00	No Qual OK by difference

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-044-SA5B-SB-4.0-5.0DUP (DUP14 -SA5B-QC-122010 SL -044-SA5B-SB-4.0-5.0 SL -044-SA5B-SB-7.0-8.0 SL -045-SA5B-SB-3.0-4.0)	HEXAVALENT CHROMIUM	46	20.00	No Qual OK by difference

Method: 7471A

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-044-SA5B-SB-4.0-5.0DUP (DUP14 -SA5B-QC-122010 SL -044-SA5B-SB-4.0-5.0 SL -044-SA5B-SB-7.0-8.0 SL -045-SA5B-SB-3.0-4.0)	MERCURY	200	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSY53Q211359A LCSY53Y211420A (TB-122010)	1,2-DIBROMO-3-CHLOROPROP 2-BUTANONE (MEK) 2-HEXANONE	124 157 146	- 152 143	66.00-120.00 66.00-151.00 65.00-136.00	- - -	1,2-DIBROMO-3-CHLOROPRO 2-BUTANONE (MEK) 2-HEXANONE	J(all detects)

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03633AQ242208A (DUP14 -SA5B-QC-122010 SL -044-SA5B-SB-4.0-5.0 SL -044-SA5B-SB-7.0-8.0 SL -045-SA5B-SB-3.0-4.0)	AROCLOR 1260	142	-	65.00-137.00	-	AROCLOR 1242, 1248, 1254, 1260	J (all detects)
P03633AQ242245A (DUP14 -SA5B-QC-122010 SL -044-SA5B-SB-4.0-5.0 SL -044-SA5B-SB-7.0-8.0 SL -045-SA5B-SB-3.0-4.0)	Aroclor 5442	73	-	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P2LHLCSSQ260913 (DUP14 -SA5B-QC-122010 SL -044-SA5B-SB-4.0-5.0 SL -044-SA5B-SB-7.0-8.0 SL -045-SA5B-SB-3.0-4.0)	3,3'-DICHLOROBENZIDINE	32	-	38.00-105.00	-	3,3'-DICHLOROBENZIDINE	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP14-SA5B-QC-122010	N-Nitrosodimethylamine-d6	581	50.00-150.00	All Target Analytes	No Qual Diluted Out

Method: 8315A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP14-SA5B-QC-122010	Butyraldehyde	44	64.00-126.00	All Target Analytes	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-044-SA5B-SB-4.0-5.0	DUP14-SA5B-QC-122010			
MOISTURE	11.6	10.6	9		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-044-SA5B-SB-4.0-5.0	DUP14-SA5B-QC-122010			
FLUORIDE	4.4	2.8	44	50.00	No Qualifiers Applied
Nitrate-NO3	1.6	7.4	129	50.00	J(all detects)

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-044-SA5B-SB-4.0-5.0	DUP14-SA5B-QC-122010			
ALUMINUM	20300	18600	9	50.00	No Qualifiers Applied
CALCIUM	1930	2450	24	50.00	
IRON	19100	19200	1	50.00	
LITHIUM	20.1	22.5	11	50.00	
MAGNESIUM	3740	4110	9	50.00	
MANGANESE	267	247	8	50.00	
POTASSIUM	1490	2480	50	50.00	
SODIUM	109	102	7	50.00	
STRONTIUM	20.8	17.3	18	50.00	
TIN	2.45	2.50	2	50.00	
TITANIUM	1160	1110	4	50.00	
Zirconium	2.04	1.50	31	50.00	
BORON	5.55 U	6.32	200	50.00	J(all detects) UJ(all non-detects)
PHOSPHORUS	128	293	78	50.00	

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-044-SA5B-SB-4.0-5.0	DUP14-SA5B-QC-122010			
ANTIMONY	0.173	0.262	41	50.00	No Qualifiers Applied
ARSENIC	5.26	8.45	47	50.00	
BARIUM	128	128	0	50.00	
BERYLLIUM	0.851	0.713	18	50.00	
CHROMIUM	20.1	26.3	27	50.00	
COBALT	6.82	8.10	17	50.00	
COPPER	6.61	10.1	42	50.00	
LEAD	6.38	9.16	36	50.00	
MOLYBDENUM	0.735	1.11	41	50.00	
NICKEL	12.3	14.9	19	50.00	
SILVER	0.0622	0.0516	19	50.00	
THALLIUM	0.300	0.409	31	50.00	
VANADIUM	42.0	52.4	22	50.00	
ZINC	52.1	84.4	47	50.00	
CADMIUM	0.0646	0.208	105	50.00	J(all detects)
SELENIUM	0.0786	0.153	64	50.00	

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-044-SA5B-SB-4.0-5.0	DUP14-SA5B-QC-122010			
HEXAVALENT CHROMIUM	0.42	1.1	89	50.00	J(all detects)

Method: 8015B

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-044-SA5B-SB-4.0-5.0	DUP14-SA5B-QC-122010			
METHANOL	310	560 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-044-SA5B-SB-4.0-5.0	DUP14-SA5B-QC-122010			
EFH (C21-C30)	1.8	3.3	59	50.00	J(all detects)
EFH (C30-C40)	4.0	9.1	78	50.00	

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-044-SA5B-SB-4.0-5.0	DUP14-SA5B-QC-122010			
AROCLOR 1254	1.9 U	4.1	200	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1260	1.9 U	0.77	200	50.00	

Method: 8260B

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-044-SA5B-SB-4.0-5.0	DUP14-SA5B-QC-122010			
METHYLENE CHLORIDE	0.54	0.39	32	50.00	No Qualifiers Applied
2-BUTANONE (MEK)	3.0	6.8 U	200	50.00	J(all detects) UJ(all non-detects)
ACETONE	31	6.6	130	50.00	
TOLUENE	4.2 U	0.1	200	50.00	

Method: 8315A

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-044-SA5B-SB-4.0-5.0	DUP14-SA5B-QC-122010			
FORMALDEHYDE	9800	1700 U	200	50.00	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-044-SA5B-SB-4.0- 5.0	DUP14-SA5B-QC- 122010			
PH	8.54	7.88	8	50.00	No Qualifiers Applied

Method: ASTM D1498

Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-044-SA5B-SB-4.0- 5.0	DUP14-SA5B-QC- 122010			
Oxidation Reduction Potential	464	506	9		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-044-SA5B-SB-4.0-5.0	Nitrate-NO3	J	1.6	1.7	PQL	mg/Kg	J (all detects)
SL-044-SA5B-SB-7.0-8.0	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP14-SA5B-QC-122010	SODIUM	J	102	110	PQL	mg/Kg	J (all detects)
	TIN	J	2.50	11.0	PQL	mg/Kg	
	Zirconium	J	1.50	5.48	PQL	mg/Kg	
SL-044-SA5B-SB-4.0-5.0	SODIUM	J	109	111	PQL	mg/Kg	J (all detects)
	TIN	J	2.45	11.1	PQL	mg/Kg	
	Zirconium	J	2.04	5.55	PQL	mg/Kg	
SL-044-SA5B-SB-7.0-8.0	BORON	J	3.96	5.52	PQL	mg/Kg	J (all detects)
	SODIUM	J	101	110	PQL	mg/Kg	
	TIN	J	2.35	11.0	PQL	mg/Kg	
	Zirconium	J	1.09	5.52	PQL	mg/Kg	
SL-045-SA5B-SB-3.0-4.0	SODIUM	J	94.9	108	PQL	mg/Kg	J (all detects)
	TIN	J	2.50	10.8	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP14-SA5B-QC-122010	SELENIUM	J	0.153	0.434	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0516	0.109	PQL	mg/Kg	
SL-044-SA5B-SB-4.0-5.0	ANTIMONY	J	0.173	0.222	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0646	0.111	PQL	mg/Kg	
	SELENIUM	J	0.0786	0.444	PQL	mg/Kg	
	SILVER	J	0.0622	0.111	PQL	mg/Kg	
SL-044-SA5B-SB-7.0-8.0	ANTIMONY	J	0.0961	0.219	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0689	0.109	PQL	mg/Kg	
	SELENIUM	J	0.0465	0.437	PQL	mg/Kg	
	SILVER	J	0.0349	0.109	PQL	mg/Kg	
SL-045-SA5B-SB-3.0-4.0	ANTIMONY	J	0.152	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.117	0.438	PQL	mg/Kg	
	SILVER	J	0.0315	0.110	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-044-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.42	1.1	PQL	mg/Kg	J (all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-044-SA5B-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.58	1.1	PQL	mg/Kg	J (all detects)
SL-045-SA5B-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.43	1.1	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-044-SA5B-SB-4.0-5.0	METHANOL	J	310	570	PQL	ug/Kg	J (all detects)
SL-044-SA5B-SB-7.0-8.0	METHANOL	J	170	570	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-044-SA5B-SB-7.0-8.0	EFH (C15-C20)	J	1.1	2.7	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP14-SA5B-QC-122010	AROCOR 1260	J	0.77	1.9	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP14-SA5B-QC-122010	ACETONE	J	6.6	6.8	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.39	3.4	PQL	ug/Kg	
	TOLUENE	J	0.1	3.4	PQL	ug/Kg	
SL-044-SA5B-SB-4.0-5.0	2-BUTANONE (MEK)	J	3.0	8.3	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.54	4.2	PQL	ug/Kg	
SL-044-SA5B-SB-7.0-8.0	2-BUTANONE (MEK)	J	2.6	8.2	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.63	4.1	PQL	ug/Kg	
SL-045-SA5B-SB-3.0-4.0	METHYLENE CHLORIDE	J	1.2	4.2	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE048

Laboratory: LL

EDD Filename: DE048_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP14-SA5B-QC-122010	BIS(2-ETHYLHEXYL)PHTHALATE	J	34	370	PQL	ug/Kg	J (all detects)
SL-044-SA5B-SB-7.0-8.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	380	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	26	190	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-044-SA5B-SB-7.0-8.0	2-METHYLNAPHTHALENE	J	0.84	1.9	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	0.49	1.9	PQL	ug/Kg	
	ANTHRACENE	J	1.5	1.9	PQL	ug/Kg	

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Bi, Ca, Fe, Mg, Mn, Ti, Zn > 4X)
VII.	Duplicate Sample Analysis	N	Dup (Cd, Hg < 5X RL)
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	5/05/11
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	—	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil

1	DUP14-SA5B-QC-122010 ⁷	11		21		31	
2	SL-044-SA5B-SB-4.0-5.0 ⁷	12		22		32	
3	SL-044-SA5B-SB-7.0-8.0	13		23		33	
4	SL-045-SA5B-SB-3.0-4.0	14		24		34	
5	SL-044-SA5B-SB-4.0-5.0MS	15		25		35	
6	SL-044-SA5B-SB-4.0-5.0MSD	16		26		36	
7	SL-044-SA5B-SB-4.0-5.0DUP	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 25750E 4

VALIDATION FINDINGS WORKSHEET

PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Sample Concentration units, unless otherwise noted: mg/Kg

Soil preparation factor applied: 100x x MS: 2x dil

Associated Samples: All

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Reviewer: [Signature]

2nd Reviewer: [Signature]

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	1	2	3	4											
Sb			0.33	0.33	0.26	0.17	0.096	0.15											

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.



QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: DE048

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6172090BKG

Serial Dilution Lab Sample ID: 6172090L

Batch ID(s): P35708D, P35726A

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		182715.8200		172377.9000		6		P
Antimony	121	0.7798	B	1.5000	U	100		MS
Arsenic	75	23.7100		17.9500		24		MS
Barium	137	575.6000		480.2500		17	E	MS
Beryllium	9	3.8370		3.5525		7		MS
Cadmium	111	0.2912	B	0.9000	U	100		MS
Calcium		17437.1500		17479.6500		0		P
Chromium	52	90.8400		78.9500		13	E	MS
Cobalt	59	30.7300		27.3850		11	E	MS
Copper	63	29.8100		27.8300		7		MS
Lead	208	28.7500		22.3950		22	E	MS
Lithium		180.8100		186.1500		3		P
Magnesium		33700.6400		32994.3500		2		P
Manganese		2406.4500		2428.8000		1		P
Molybdenum	98	3.3150		2.7155		18		MS
Nickel	60	55.3700		50.1500		9		MS
Potassium		13473.5600		13475.3000		0		P
Selenium	78	0.3544	B	1.0000	U	100		MS
Silver	107	0.2802	B	0.3000	U	100		MS
Sodium		982.3300	B	1865.0000	U	100		P
Strontium		187.6600		183.4500		2		P
Thallium	203	1.3530		0.9065	B	33		MS
Titanium		10419.9600		10691.4500		3		P
Vanadium	51	189.3000		169.4500		10		MS
Zinc	66	235.1000		182.5500		22		MS
Zirconium		18.4100	B	42.0000	U	100		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

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METHODS:

P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:

U= Below MDL

B= Below LOQ

FLAGS:

E = Matrix Effects exist as proven by
Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE049

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Dec-2010	SL-219-SA5B-SS-0.0-0.5	6172115	N	3050B	6010B	IV
21-Dec-2010	SL-219-SA5B-SS-0.0-0.5	6172115	N	3050B	6020	IV
21-Dec-2010	SL-219-SA5B-SS-0.0-0.5	6172115	N	3060A	7199	IV
21-Dec-2010	SL-219-SA5B-SS-0.0-0.5	6172115	N	3550B	8081A	IV
21-Dec-2010	SL-219-SA5B-SS-0.0-0.5	6172115	N	3550B	8082	IV
21-Dec-2010	SL-219-SA5B-SS-0.0-0.5	6172115	N	3550B	8151A	IV
21-Dec-2010	SL-219-SA5B-SS-0.0-0.5	6172115	N	3550B	8270C	IV
21-Dec-2010	SL-219-SA5B-SS-0.0-0.5	6172115	N	3550B	8270C SIM	IV
21-Dec-2010	SL-219-SA5B-SS-0.0-0.5	6172115	N	Gen Prep	9045M	IV
21-Dec-2010	SL-219-SA5B-SS-0.0-0.5	6172115	N	METHOD	300.0	IV
21-Dec-2010	SL-219-SA5B-SS-0.0-0.5	6172115	N	METHOD	314.0	IV
21-Dec-2010	SL-219-SA5B-SS-0.0-0.5	6172115	N	METHOD	7471A	IV
21-Dec-2010	SL-225-SA5B-SS-0.0-0.5	6172116	N	3050B	6010B	IV
21-Dec-2010	SL-225-SA5B-SS-0.0-0.5	6172116	N	3050B	6020	IV
21-Dec-2010	SL-225-SA5B-SS-0.0-0.5	6172116	N	3060A	7199	IV
21-Dec-2010	SL-225-SA5B-SS-0.0-0.5	6172116	N	3550B	8081A	IV
21-Dec-2010	SL-225-SA5B-SS-0.0-0.5	6172116	N	3550B	8082	IV
21-Dec-2010	SL-225-SA5B-SS-0.0-0.5	6172116	N	3550B	8151A	IV
21-Dec-2010	SL-225-SA5B-SS-0.0-0.5	6172116	N	3550B	8270C	IV
21-Dec-2010	SL-225-SA5B-SS-0.0-0.5	6172116	N	3550B	8270C SIM	IV
21-Dec-2010	SL-225-SA5B-SS-0.0-0.5	6172116	N	Gen Prep	9045M	IV
21-Dec-2010	SL-225-SA5B-SS-0.0-0.5	6172116	N	METHOD	300.0	IV
21-Dec-2010	SL-225-SA5B-SS-0.0-0.5	6172116	N	METHOD	314.0	IV
21-Dec-2010	SL-225-SA5B-SS-0.0-0.5	6172116	N	METHOD	7471A	IV
21-Dec-2010	SL-227-SA5B-SS-0.0-0.5	6172118	N	3050B	6010B	IV
21-Dec-2010	SL-227-SA5B-SS-0.0-0.5	6172118	N	3050B	6020	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Dec-2010	SL-227-SA5B-SS-0.0-0.5	6172118	N	3060A	7199	IV
21-Dec-2010	SL-227-SA5B-SS-0.0-0.5	6172118	N	3550B	8081A	IV
21-Dec-2010	SL-227-SA5B-SS-0.0-0.5	6172118	N	3550B	8082	IV
21-Dec-2010	SL-227-SA5B-SS-0.0-0.5	6172118	N	3550B	8151A	IV
21-Dec-2010	SL-227-SA5B-SS-0.0-0.5	6172118	N	3550B	8270C	IV
21-Dec-2010	SL-227-SA5B-SS-0.0-0.5	6172118	N	3550B	8270C SIM	IV
21-Dec-2010	SL-227-SA5B-SS-0.0-0.5	6172118	N	Gen Prep	9045M	IV
21-Dec-2010	SL-227-SA5B-SS-0.0-0.5	6172118	N	METHOD	300.0	IV
21-Dec-2010	SL-227-SA5B-SS-0.0-0.5	6172118	N	METHOD	314.0	IV
21-Dec-2010	SL-227-SA5B-SS-0.0-0.5	6172118	N	METHOD	7471A	IV
21-Dec-2010	SL-226-SA5B-SS-0.0-0.5	6172117	N	3050B	6010B	IV
21-Dec-2010	SL-226-SA5B-SS-0.0-0.5	6172117	N	3050B	6020	IV
21-Dec-2010	SL-226-SA5B-SS-0.0-0.5	6172117	N	3060A	7199	IV
21-Dec-2010	SL-226-SA5B-SS-0.0-0.5	6172117	N	3550B	8081A	IV
21-Dec-2010	SL-226-SA5B-SS-0.0-0.5	6172117	N	3550B	8082	IV
21-Dec-2010	SL-226-SA5B-SS-0.0-0.5	6172117	N	3550B	8151A	IV
21-Dec-2010	SL-226-SA5B-SS-0.0-0.5	6172117	N	3550B	8270C	IV
21-Dec-2010	SL-226-SA5B-SS-0.0-0.5	6172117	N	3550B	8270C SIM	IV
21-Dec-2010	SL-226-SA5B-SS-0.0-0.5	6172117	N	Gen Prep	9045M	IV
21-Dec-2010	SL-226-SA5B-SS-0.0-0.5	6172117	N	METHOD	300.0	IV
21-Dec-2010	SL-226-SA5B-SS-0.0-0.5	6172117	N	METHOD	314.0	IV
21-Dec-2010	SL-226-SA5B-SS-0.0-0.5	6172117	N	METHOD	7471A	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	3050B	6010B	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	3050B	6020	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	3060A	7199	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	3546	1625C	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	3550B	8015B	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	3550B	8015M	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	3550B	8081A	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	3550B	8082	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	3550B	8151A	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	3550B	8270C	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	3550B	8270C SIM	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	5035	8015M	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	5035	8260B	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	5035	8260B SIM	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	8330	8330A	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	Gen Prep	9045M	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	METHOD	300.0	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	METHOD	314.0	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	METHOD	7471A	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	METHOD	8015B	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	METHOD	8015M	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	METHOD	8315A	IV
21-Dec-2010	SL-183-SA5B-SS-0.0-0.5	6172114	N	METHOD	9012B	IV
21-Dec-2010	SL-159-SA5B-SS-0.0-0.5	6172113	N	3050B	6010B	IV
21-Dec-2010	SL-159-SA5B-SS-0.0-0.5	6172113	N	3050B	6020	IV
21-Dec-2010	SL-159-SA5B-SS-0.0-0.5	6172113	N	3060A	7199	IV
21-Dec-2010	SL-159-SA5B-SS-0.0-0.5	6172113	N	3550B	8081A	IV
21-Dec-2010	SL-159-SA5B-SS-0.0-0.5	6172113	N	3550B	8082	IV
21-Dec-2010	SL-159-SA5B-SS-0.0-0.5	6172113	N	3550B	8151A	IV
21-Dec-2010	SL-159-SA5B-SS-0.0-0.5	6172113	N	3550B	8270C	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Dec-2010	SL-159-SA5B-SS-0.0-0.5	6172113	N	3550B	8270C SIM	IV
21-Dec-2010	SL-159-SA5B-SS-0.0-0.5	6172113	N	Gen Prep	9045M	IV
21-Dec-2010	SL-159-SA5B-SS-0.0-0.5	6172113	N	METHOD	300.0	IV
21-Dec-2010	SL-159-SA5B-SS-0.0-0.5	6172113	N	METHOD	314.0	IV
21-Dec-2010	SL-159-SA5B-SS-0.0-0.5	6172113	N	METHOD	7471A	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0	6172107	N	3050B	6010B	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0	6172107	N	3050B	6020	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0	6172107	N	3060A	7199	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0	6172107	N	3550B	8082	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0	6172107	N	3550B	8270C	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0	6172107	N	3550B	8270C SIM	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0	6172107	N	5035	8260B	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0	6172107	N	5035	8260B SIM	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0	6172107	N	Gen Prep	9045M	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0	6172107	N	METHOD	300.0	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0	6172107	N	METHOD	314.0	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0	6172107	N	METHOD	7471A	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MS	6172108	MS	3050B	6010B	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MS	6172108	MS	3050B	6020	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MS	6172108	MS	3060A	7199	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MS	6172108	MS	3550B	8082	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MS	6172108	MS	3550B	8270C	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MS	6172108	MS	3550B	8270C SIM	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MS	6172108	MS	5035	8260B	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MS	6172108	MS	5035	8260B SIM	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MS	6172108	MS	METHOD	300.0	IV

III = EPA Level 3 Data Review
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FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MS	6172108	MS	METHOD	314.0	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MS	6172108	MS	METHOD	7471A	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MSD	6172109	MSD	3050B	6010B	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MSD	6172109	MSD	3050B	6020	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MSD	6172109	MSD	3550B	8082	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MSD	6172109	MSD	3550B	8270C	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MSD	6172109	MSD	3550B	8270C SIM	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MSD	6172109	MSD	5035	8260B	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MSD	6172109	MSD	5035	8260B SIM	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MSD	6172109	MSD	METHOD	7471A	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0DUP	6172110	DUP	3050B	6010B	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0DUP	6172110	DUP	3050B	6020	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0DUP	6172110	DUP	3060A	7199	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0DUP	6172110	DUP	Gen Prep	9045M	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0DUP	6172110	DUP	METHOD	300.0	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0DUP	6172110	DUP	METHOD	314.0	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0DUP	6172110	DUP	METHOD	7471A	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0DUP	P172107D270307B	DUP	METHOD	300.0	IV
21-Dec-2010	SL-046-SA5B-SB-4.0-5.0MS	P172107R270321B	MS	METHOD	300.0	IV
21-Dec-2010	DUP15-SA5B-QC-122110	6172103	FD	3050B	6010B	IV
21-Dec-2010	DUP15-SA5B-QC-122110	6172103	FD	3050B	6020	IV
21-Dec-2010	DUP15-SA5B-QC-122110	6172103	FD	3060A	7199	IV
21-Dec-2010	DUP15-SA5B-QC-122110	6172103	FD	3550B	8082	IV
21-Dec-2010	DUP15-SA5B-QC-122110	6172103	FD	3550B	8270C	IV
21-Dec-2010	DUP15-SA5B-QC-122110	6172103	FD	3550B	8270C SIM	IV
21-Dec-2010	DUP15-SA5B-QC-122110	6172103	FD	5035	8260B	IV

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

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FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Dec-2010	DUP15-SA5B-QC-122110	6172103	FD	5035	8260B SIM	IV
21-Dec-2010	DUP15-SA5B-QC-122110	6172103	FD	Gen Prep	9045M	IV
21-Dec-2010	DUP15-SA5B-QC-122110	6172103	FD	METHOD	300.0	IV
21-Dec-2010	DUP15-SA5B-QC-122110	6172103	FD	METHOD	314.0	IV
21-Dec-2010	DUP15-SA5B-QC-122110	6172103	FD	METHOD	7471A	IV
21-Dec-2010	SL-046-SA5B-SB-9.0-10.0	6172111	N	3050B	6010B	IV
21-Dec-2010	SL-046-SA5B-SB-9.0-10.0	6172111	N	3050B	6020	IV
21-Dec-2010	SL-046-SA5B-SB-9.0-10.0	6172111	N	3060A	7199	IV
21-Dec-2010	SL-046-SA5B-SB-9.0-10.0	6172111	N	3550B	8082	IV
21-Dec-2010	SL-046-SA5B-SB-9.0-10.0	6172111	N	3550B	8270C	IV
21-Dec-2010	SL-046-SA5B-SB-9.0-10.0	6172111	N	3550B	8270C SIM	IV
21-Dec-2010	SL-046-SA5B-SB-9.0-10.0	6172111	N	Gen Prep	9045M	IV
21-Dec-2010	SL-046-SA5B-SB-9.0-10.0	6172111	N	METHOD	300.0	IV
21-Dec-2010	SL-046-SA5B-SB-9.0-10.0	6172111	N	METHOD	314.0	IV
21-Dec-2010	SL-046-SA5B-SB-9.0-10.0	6172111	N	METHOD	7471A	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	3005A	6010B	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	3020A	6020	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	3510C	8015B	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	3510C	8015M	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	3510C	8081A	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	3510C	8082	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	3510C	8270C	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	3510C	8270C SIM	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	3520C	1625C	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	5030B	8015M	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	8330	8330A	IV

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

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FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Dec-2010	EB07-SA5B-122110	6172104	EB	Gen Prep	300.0	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	Gen Prep	314.0	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	Gen Prep	7199	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	Gen Prep	8015B	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	Gen Prep	8015M	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	Gen Prep	9040B	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	METHOD	7470A	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	METHOD	8151A	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	METHOD	8315A	IV
21-Dec-2010	EB07-SA5B-122110	6172104	EB	METHOD	9012B	IV
21-Dec-2010	TB-122110	6172119	TB	5030B	8015M	IV
21-Dec-2010	TB-122110	6172119	TB	5030B	8260B	IV
21-Dec-2010	TB-122110	6172119	TB	5030B	8260B SIM	IV
21-Dec-2010	SL-047-SA5B-SB-4.0-5.0	6172112	N	3050B	6010B	IV
21-Dec-2010	SL-047-SA5B-SB-4.0-5.0	6172112	N	3050B	6020	IV
21-Dec-2010	SL-047-SA5B-SB-4.0-5.0	6172112	N	3060A	7199	IV
21-Dec-2010	SL-047-SA5B-SB-4.0-5.0	6172112	N	3550B	8082	IV
21-Dec-2010	SL-047-SA5B-SB-4.0-5.0	6172112	N	3550B	8270C	IV
21-Dec-2010	SL-047-SA5B-SB-4.0-5.0	6172112	N	3550B	8270C SIM	IV
21-Dec-2010	SL-047-SA5B-SB-4.0-5.0	6172112	N	5035	8260B	IV
21-Dec-2010	SL-047-SA5B-SB-4.0-5.0	6172112	N	5035	8260B SIM	IV
21-Dec-2010	SL-047-SA5B-SB-4.0-5.0	6172112	N	Gen Prep	9045M	IV
21-Dec-2010	SL-047-SA5B-SB-4.0-5.0	6172112	N	METHOD	300.0	IV
21-Dec-2010	SL-047-SA5B-SB-4.0-5.0	6172112	N	METHOD	314.0	IV
21-Dec-2010	SL-047-SA5B-SB-4.0-5.0	6172112	N	METHOD	7471A	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	3050B	6010B	IV

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

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TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	3050B	6020	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	3060A	7199	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	3546	1625C	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	3550B	8015B	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	3550B	8015M	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	3550B	8082	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	3550B	8270C	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	3550B	8270C SIM	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	5035	8015M	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	5035	8260B	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	5035	8260B SIM	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	8330	8330A	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	Gen Prep	9045M	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	METHOD	300.0	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	METHOD	314.0	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	METHOD	7471A	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	METHOD	8015B	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	METHOD	8015M	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	METHOD	8315A	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0	6172105	N	METHOD	9012B	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0DUP	P172105D271953A	DUP	METHOD	9012B	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0MSD	P172105M240142A	MSD	8330	8330A	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0MS	P172105R240100A	MS	8330	8330A	IV
21-Dec-2010	SL-006-SA5B-SB-4.0-5.0MS	P172105R271956A	MS	METHOD	9012B	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	3050B	6010B	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	3050B	6020	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	3060A	7199	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	3546	1625C	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	3550B	8015B	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	3550B	8015M	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	3550B	8082	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	3550B	8270C	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	3550B	8270C SIM	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	5035	8015M	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	5035	8260B	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	5035	8260B SIM	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	8330	8330A	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	Gen Prep	9045M	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	METHOD	300.0	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	METHOD	314.0	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	METHOD	7471A	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	METHOD	8015B	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	METHOD	8015M	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	METHOD	8315A	IV
21-Dec-2010	SL-006-SA5B-SB-5.0-6.0	6172106	N	METHOD	9012B	IV

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM
Method:	300.0
Matrix:	SO

Sample ID: SL-006-SA5B-SB-4.0-5.0 Collected: 12/21/2010 3:29:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.5	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-046-SA5B-SB-4.0-5.0 Collected: 12/21/2010 10:47:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-046-SA5B-SB-9.0-10.0 Collected: 12/21/2010 10:54:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.1		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-047-SA5B-SB-4.0-5.0 Collected: 12/21/2010 12:54:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-159-SA5B-SS-0.0-0.5 Collected: 12/21/2010 10:37:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-183-SA5B-SS-0.0-0.5 Collected: 12/21/2010 10:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.95	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-219-SA5B-SS-0.0-0.5 Collected: 12/21/2010 8:59:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2	J	1.0	MDL	1.3	PQL	mg/Kg	J	Z, Q

Sample ID: SL-225-SA5B-SS-0.0-0.5 Collected: 12/21/2010 9:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		1.1	MDL	1.3	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

7/18/2011 7:58:55 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-226-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.99	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-227-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.97	MDL	1.2	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: DUP15-SA5B-QC-122110

Collected: 12/21/2010 10:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.57	J	0.937	MDL	5.27	PQL	mg/Kg	J	Z
CALCIUM	4610		6.46	MDL	21.1	PQL	mg/Kg	J	E
LITHIUM	28.8		0.23	MDL	2.1	PQL	mg/Kg	J	A
TIN	2.29	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	0.885	U	0.885	MDL	5.27	PQL	mg/Kg	UJ	FD

Sample ID: SL-006-SA5B-SB-4.0-5.0

Collected: 12/21/2010 3:29:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2650		6.59	MDL	21.5	PQL	mg/Kg	J	E
LITHIUM	20.2		0.24	MDL	2.2	PQL	mg/Kg	J	A
TIN	2.41	J	1.08	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-006-SA5B-SB-5.0-6.0

Collected: 12/21/2010 3:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	30500		7.06	MDL	23.0	PQL	mg/Kg	J	E
LITHIUM	3.8		0.25	MDL	2.3	PQL	mg/Kg	J	A
TIN	1.62	J	1.15	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.25	J	0.967	MDL	5.76	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-046-SA5B-SB-4.0-5.0

Collected: 12/21/2010 10:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.08	J	0.931	MDL	5.23	PQL	mg/Kg	J	Z
CALCIUM	3860		6.41	MDL	20.9	PQL	mg/Kg	J	E
LITHIUM	27.1		0.23	MDL	2.1	PQL	mg/Kg	J	A
TIN	2.23	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.15	J	0.879	MDL	5.23	PQL	mg/Kg	J	Z, FD

Sample ID: SL-046-SA5B-SB-9.0-10.0

Collected: 12/21/2010 10:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2000		6.81	MDL	22.2	PQL	mg/Kg	J	E
LITHIUM	16.1		0.24	MDL	2.2	PQL	mg/Kg	J	A
SODIUM	102	J	41.4	MDL	111	PQL	mg/Kg	J	Z
TIN	1.95	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.06	J	0.933	MDL	5.55	PQL	mg/Kg	J	Z

Sample ID: SL-047-SA5B-SB-4.0-5.0

Collected: 12/21/2010 12:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2500		6.78	MDL	22.1	PQL	mg/Kg	J	E
LITHIUM	23.8		0.24	MDL	2.2	PQL	mg/Kg	J	A
TIN	2.37	J	1.11	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-159-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:37:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2230		6.80	MDL	22.2	PQL	mg/Kg	J	E
LITHIUM	19.9		0.24	MDL	2.2	PQL	mg/Kg	J	A
SODIUM	74.8	J	41.4	MDL	111	PQL	mg/Kg	J	Z
TIN	2.03	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.43	J	0.932	MDL	5.55	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3360		7.28	MDL	23.8	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-183-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LITHIUM	19.9		0.26	MDL	2.4	PQL	mg/Kg	J	A
SODIUM	91.7	J	44.3	MDL	119	PQL	mg/Kg	J	Z
TIN	2.51	J	1.19	MDL	11.9	PQL	mg/Kg	U	B

Sample ID: SL-219-SA5B-SS-0.0-0.5

Collected: 12/21/2010 8:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3600		7.67	MDL	25.0	PQL	mg/Kg	J	E
LITHIUM	24.6		0.28	MDL	2.5	PQL	mg/Kg	J	A
TIN	2.97	J	1.25	MDL	12.5	PQL	mg/Kg	U	B
Zirconium	5.46	J	1.05	MDL	6.26	PQL	mg/Kg	J	Z

Sample ID: SL-225-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3170		8.00	MDL	26.1	PQL	mg/Kg	J	E
LITHIUM	21.5		0.29	MDL	2.6	PQL	mg/Kg	J	A
TIN	2.71	J	1.31	MDL	13.1	PQL	mg/Kg	U	B
Zirconium	1.60	J	1.10	MDL	6.53	PQL	mg/Kg	J	Z

Sample ID: SL-226-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4580		7.40	MDL	24.1	PQL	mg/Kg	J	E
LITHIUM	29.3		0.27	MDL	2.4	PQL	mg/Kg	J	A
TIN	2.62	J	1.21	MDL	12.1	PQL	mg/Kg	U	B
Zirconium	1.27	J	1.01	MDL	6.04	PQL	mg/Kg	J	Z

Sample ID: SL-227-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4700		7.37	MDL	24.0	PQL	mg/Kg	J	E
LITHIUM	24.8		0.26	MDL	2.4	PQL	mg/Kg	J	A
TIN	2.04	J	1.20	MDL	12.0	PQL	mg/Kg	U	B
Zirconium	1.41	J	1.01	MDL	6.01	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: AQ

Sample ID: EB07-SA5B-122110

Collected: 12/21/2010 12:12:00

Analysis Type: REA5

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000060	J	0.00005 2	MDL	0.0010	PQL	mg/L	U	B

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP15-SA5B-QC-122110

Collected: 12/21/2010 10:52:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.136	J	0.0434	MDL	0.434	PQL	mg/Kg	J	Z

Sample ID: DUP15-SA5B-QC-122110

Collected: 12/21/2010 10:52:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.336		0.0542	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: DUP15-SA5B-QC-122110

Collected: 12/21/2010 10:52:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0697	J	0.0651	MDL	0.217	PQL	mg/Kg	J	Z, Q
ARSENIC	4.37		0.0651	MDL	0.434	PQL	mg/Kg	J	Q
CADMIUM	0.100	J	0.0390	MDL	0.108	PQL	mg/Kg	J	Z
CHROMIUM	19.2		0.130	MDL	0.434	PQL	mg/Kg	J	Q, A
COBALT	6.06		0.0217	MDL	0.108	PQL	mg/Kg	J	E, A
COPPER	8.14		0.0716	MDL	0.434	PQL	mg/Kg	J	A
LEAD	4.54		0.0113	MDL	0.217	PQL	mg/Kg	J	Q
SILVER	0.0210	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5B-SB-4.0-5.0

Collected: 12/21/2010 3:29:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.125	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-006-SA5B-SB-4.0-5.0

Collected: 12/21/2010 3:29:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.311		0.0522	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5B-SB-4.0-5.0

Collected: 12/21/2010 3:29:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0626	U	0.0626	MDL	0.209	PQL	mg/Kg	UJ	Q
ARSENIC	3.28		0.0626	MDL	0.418	PQL	mg/Kg	J	Q
CADMIUM	0.0677	J	0.0376	MDL	0.104	PQL	mg/Kg	J	Z
CHROMIUM	10.1		0.125	MDL	0.418	PQL	mg/Kg	J	Q, A
COBALT	3.94		0.0209	MDL	0.104	PQL	mg/Kg	J	E, A
COPPER	4.77		0.0689	MDL	0.418	PQL	mg/Kg	J	A
LEAD	4.17		0.0109	MDL	0.209	PQL	mg/Kg	J	Q
SILVER	0.0270	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5B-SB-5.0-6.0

Collected: 12/21/2010 3:39:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0610	J	0.0465	MDL	0.465	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5B-SB-5.0-6.0

Collected: 12/21/2010 3:39:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.16		0.0581	MDL	0.116	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5B-SB-5.0-6.0

Collected: 12/21/2010 3:39:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.147	J	0.0698	MDL	0.233	PQL	mg/Kg	J	Z, Q
ARSENIC	4.36		0.0698	MDL	0.465	PQL	mg/Kg	J	Q
CHROMIUM	14.0		0.140	MDL	0.465	PQL	mg/Kg	J	Q, A
COBALT	3.23		0.0233	MDL	0.116	PQL	mg/Kg	J	E, A
COPPER	8.47		0.0767	MDL	0.465	PQL	mg/Kg	J	A
LEAD	2.28		0.0121	MDL	0.233	PQL	mg/Kg	J	Q
THALLIUM	0.0577	J	0.0349	MDL	0.116	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-046-SA5B-SB-4.0-5.0

Collected: 12/21/2010 10:47:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.173	J	0.0415	MDL	0.415	PQL	mg/Kg	J	Z

Sample ID: SL-046-SA5B-SB-4.0-5.0

Collected: 12/21/2010 10:47:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.390		0.0518	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-046-SA5B-SB-4.0-5.0

Collected: 12/21/2010 10:47:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0861	J	0.0622	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	3.99		0.0622	MDL	0.415	PQL	mg/Kg	J	Q
CADMIUM	0.0841	J	0.0373	MDL	0.104	PQL	mg/Kg	J	Z
CHROMIUM	15.1		0.124	MDL	0.415	PQL	mg/Kg	J	Q, A
COBALT	4.73		0.0207	MDL	0.104	PQL	mg/Kg	J	E, A
COPPER	7.35		0.0684	MDL	0.415	PQL	mg/Kg	J	A
LEAD	4.86		0.0108	MDL	0.207	PQL	mg/Kg	J	Q
SILVER	0.0186	J	0.0124	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-046-SA5B-SB-9.0-10.0

Collected: 12/21/2010 10:54:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.167	J	0.0440	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SL-046-SA5B-SB-9.0-10.0

Collected: 12/21/2010 10:54:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.793		0.0550	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-046-SA5B-SB-9.0-10.0

Collected: 12/21/2010 10:54:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.105	J	0.0660	MDL	0.220	PQL	mg/Kg	J	Z, Q
ARSENIC	4.60		0.0660	MDL	0.440	PQL	mg/Kg	J	Q
CHROMIUM	18.0		0.132	MDL	0.440	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-046-SA5B-SB-9.0-10.0

Collected: 12/21/2010 10:54:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	5.88		0.0220	MDL	0.110	PQL	mg/Kg	J	E, A
COPPER	9.77		0.0726	MDL	0.440	PQL	mg/Kg	J	A
LEAD	8.40		0.0114	MDL	0.220	PQL	mg/Kg	J	Q
SILVER	0.0387	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-047-SA5B-SB-4.0-5.0

Collected: 12/21/2010 12:54:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.187	J	0.0425	MDL	0.425	PQL	mg/Kg	J	Z

Sample ID: SL-047-SA5B-SB-4.0-5.0

Collected: 12/21/2010 12:54:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.649		0.0532	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-047-SA5B-SB-4.0-5.0

Collected: 12/21/2010 12:54:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0638	U	0.0638	MDL	0.213	PQL	mg/Kg	UJ	Q
ARSENIC	10.5		0.0638	MDL	0.425	PQL	mg/Kg	J	Q
CHROMIUM	18.4		0.128	MDL	0.425	PQL	mg/Kg	J	Q, A
COBALT	6.84		0.0213	MDL	0.106	PQL	mg/Kg	J	E, A
COPPER	9.18		0.0702	MDL	0.425	PQL	mg/Kg	J	A
LEAD	7.40		0.0111	MDL	0.213	PQL	mg/Kg	J	Q
SILVER	0.0405	J	0.0128	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:37:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.185	J	0.0448	MDL	0.448	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:37:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.773		0.0560	MDL	0.112	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-159-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:37:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0779	J	0.0672	MDL	0.224	PQL	mg/Kg	J	Z, Q
ARSENIC	10.0		0.0672	MDL	0.448	PQL	mg/Kg	J	Q
CHROMIUM	22.4		0.134	MDL	0.448	PQL	mg/Kg	J	Q, A
COBALT	7.05		0.0224	MDL	0.112	PQL	mg/Kg	J	E, A
COPPER	12.2		0.0740	MDL	0.448	PQL	mg/Kg	J	A
LEAD	9.06		0.0117	MDL	0.224	PQL	mg/Kg	J	Q

Sample ID: SL-183-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.194	J	0.0470	MDL	0.470	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.855		0.0588	MDL	0.118	PQL	mg/Kg	J	Q

Sample ID: SL-183-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.122	J	0.0706	MDL	0.235	PQL	mg/Kg	J	Z, Q
ARSENIC	8.47		0.0706	MDL	0.470	PQL	mg/Kg	J	Q
CHROMIUM	24.2		0.141	MDL	0.470	PQL	mg/Kg	J	Q, A
COBALT	6.99		0.0235	MDL	0.118	PQL	mg/Kg	J	E, A
COPPER	12.7		0.0776	MDL	0.470	PQL	mg/Kg	J	A
LEAD	12.9		0.0122	MDL	0.235	PQL	mg/Kg	J	Q
SILVER	0.0498	J	0.0141	MDL	0.118	PQL	mg/Kg	J	Z

Sample ID: SL-219-SA5B-SS-0.0-0.5

Collected: 12/21/2010 8:59:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.385	J	0.0491	MDL	0.491	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-219-SA5B-SS-0.0-0.5

Collected: 12/21/2010 8:59:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.30		0.0614	MDL	0.123	PQL	mg/Kg	J	Q

Sample ID: SL-219-SA5B-SS-0.0-0.5

Collected: 12/21/2010 8:59:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.632		0.0736	MDL	0.245	PQL	mg/Kg	J	Q
ARSENIC	5.55		0.0736	MDL	0.491	PQL	mg/Kg	J	Q
CHROMIUM	37.8		0.147	MDL	0.491	PQL	mg/Kg	J	Q, A
COBALT	8.03		0.0245	MDL	0.123	PQL	mg/Kg	J	E, A
COPPER	44.8		0.0810	MDL	0.491	PQL	mg/Kg	J	A
LEAD	60.2		0.0128	MDL	0.245	PQL	mg/Kg	J	Q

Sample ID: SL-225-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:35:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.518	J	0.0527	MDL	0.527	PQL	mg/Kg	J	Z

Sample ID: SL-225-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:35:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.821		0.0659	MDL	0.132	PQL	mg/Kg	J	Q

Sample ID: SL-225-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.300		0.0791	MDL	0.264	PQL	mg/Kg	J	Q
ARSENIC	5.37		0.0791	MDL	0.527	PQL	mg/Kg	J	Q
CHROMIUM	35.3		0.158	MDL	0.527	PQL	mg/Kg	J	Q, A
COBALT	9.13		0.0264	MDL	0.132	PQL	mg/Kg	J	E, A
COPPER	43.5		0.0870	MDL	0.527	PQL	mg/Kg	J	A
LEAD	52.2		0.0137	MDL	0.264	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-226-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:50:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.249	J	0.0488	MDL	0.488	PQL	mg/Kg	J	Z

Sample ID: SL-226-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:50:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.853		0.0610	MDL	0.122	PQL	mg/Kg	J	Q

Sample ID: SL-226-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:50:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.147	J	0.0732	MDL	0.244	PQL	mg/Kg	J	Z, Q
ARSENIC	6.14		0.0732	MDL	0.488	PQL	mg/Kg	J	Q
CHROMIUM	23.2		0.146	MDL	0.488	PQL	mg/Kg	J	Q, A
COBALT	6.75		0.0244	MDL	0.122	PQL	mg/Kg	J	E, A
COPPER	17.3		0.0805	MDL	0.488	PQL	mg/Kg	J	A
LEAD	15.6		0.0127	MDL	0.244	PQL	mg/Kg	J	Q

Sample ID: SL-227-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:38:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.174	J	0.0481	MDL	0.481	PQL	mg/Kg	J	Z

Sample ID: SL-227-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:38:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.576		0.0601	MDL	0.120	PQL	mg/Kg	J	Q

Sample ID: SL-227-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:38:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0750	J	0.0721	MDL	0.240	PQL	mg/Kg	J	Z, Q
ARSENIC	5.94		0.0721	MDL	0.481	PQL	mg/Kg	J	Q
CHROMIUM	25.3		0.144	MDL	0.481	PQL	mg/Kg	J	Q, A
COBALT	6.63		0.0240	MDL	0.120	PQL	mg/Kg	J	E, A
COPPER	12.5		0.0793	MDL	0.481	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-227-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:38:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	11.8		0.0125	MDL	0.240	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199

Matrix: AQ

Sample ID: EB07-SA5B-122110

Collected: 12/21/2010 12:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	5.0	U	5.0	MDL	10.0	PQL	ug/L	UJ	H

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: DUP15-SA5B-QC-122110

Collected: 12/21/2010 10:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	U	0.22	MDL	1.1	PQL	mg/Kg	UJ	FD

Sample ID: SL-006-SA5B-SB-4.0-5.0

Collected: 12/21/2010 3:29:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5B-SB-5.0-6.0

Collected: 12/21/2010 3:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.83	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-046-SA5B-SB-4.0-5.0

Collected: 12/21/2010 10:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-047-SA5B-SB-4.0-5.0

Collected: 12/21/2010 12:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:37:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.39	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-219-SA5B-SS-0.0-0.5

Collected: 12/21/2010 8:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.26	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-225-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.27	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-226-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.65	J	0.25	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-227-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.86	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: DUP15-SA5B-QC-122110

Collected: 12/21/2010 10:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0031	U	0.0031	MDL	0.107	PQL	mg/Kg	UJ	FD

Sample ID: SL-006-SA5B-SB-4.0-5.0

Collected: 12/21/2010 3:29:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0036	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-046-SA5B-SB-4.0-5.0

Collected: 12/21/2010 10:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0067	J	0.0030	MDL	0.106	PQL	mg/Kg	J	Z, FD

Sample ID: SL-047-SA5B-SB-4.0-5.0

Collected: 12/21/2010 12:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0043	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:37:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0229	J	0.0032	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0361	J	0.0034	MDL	0.118	PQL	mg/Kg	J	Z

Sample ID: SL-226-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0805	J	0.0033	MDL	0.115	PQL	mg/Kg	J	Z

Sample ID: SL-227-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0146	J	0.0033	MDL	0.116	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Method Category: SVOA

Method: 1625C

Matrix: AQ

Sample ID: EB07-SA5B-122110

Collected: 12/21/2010 12:12:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.83		0.521	MDL	1.04	PQL	ng/L	UJ	B, S

Method Category: SVOA

Method: 8015M

Matrix: AQ

Sample ID: EB07-SA5B-122110

Collected: 12/21/2010 12:12:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	10	U	10	MDL	100	PQL	mg/L	R	H
ETHYLENE GLYCOL	10	U	10	MDL	100	PQL	mg/L	R	H
Propylene glycol	10	U	10	MDL	100	PQL	mg/L	R	H

Sample ID: EB07-SA5B-122110

Collected: 12/21/2010 12:12:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.10	U	0.10	MDL	0.61	PQL	mg/L	UJ	S
EFH (C15-C20)	0.10	U	0.10	MDL	0.61	PQL	mg/L	UJ	S
EFH (C21-C30)	0.10	U	0.10	MDL	0.61	PQL	mg/L	UJ	S
EFH (C30-C40)	0.10	U	0.10	MDL	0.61	PQL	mg/L	UJ	S
EFH (C8-C11)	0.10	U	0.10	MDL	0.61	PQL	mg/L	UJ	S

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: SL-183-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.1	J	0.95	MDL	2.9	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: AQ

Sample ID: EB07-SA5B-122110

Collected: 12/21/2010 12:12:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.0050	U	0.0050	MDL	0.020	PQL	ug/L	UJ	C
4,4'-DDT	0.0050	U	0.0050	MDL	0.020	PQL	ug/L	UJ	C
BETA-BHC	0.0050	U	0.0050	MDL	0.0099	PQL	ug/L	UJ	C
ENDOSULFAN SULFATE	0.0058	U	0.0058	MDL	0.020	PQL	ug/L	UJ	C
METHOXYCHLOR	0.030	U	0.030	MDL	0.099	PQL	ug/L	UJ	C

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-159-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:37:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.040	U	0.040	MDL	0.19	PQL	ug/Kg	UJ	L
gamma-BHC (Lindane)	0.040	U	0.040	MDL	0.19	PQL	ug/Kg	UJ	L

Sample ID: SL-183-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	R	S
4,4'-DDE	0.27	U	0.27	MDL	0.40	PQL	ug/Kg	R	S
4,4'-DDT	0.70	U	0.70	MDL	0.70	PQL	ug/Kg	R	S
ALDRIN	0.078	U	0.078	MDL	0.20	PQL	ug/Kg	R	S
ALPHA-BHC	0.040	U	0.040	MDL	0.20	PQL	ug/Kg	R	S
BETA-BHC	0.071	U	0.071	MDL	0.20	PQL	ug/Kg	R	S
Chlordane	0.95	U	0.95	MDL	4.0	PQL	ug/Kg	R	S
DELTA-BHC	0.043	U	0.043	MDL	0.20	PQL	ug/Kg	R	S
DIELDRIN	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	R	S
ENDOSULFAN I	0.052	U	0.052	MDL	0.20	PQL	ug/Kg	R	S
ENDOSULFAN II	0.10	U	0.10	MDL	0.40	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.53	U	0.53	MDL	0.53	PQL	ug/Kg	R	S
ENDRIN	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.26	U	0.26	MDL	0.40	PQL	ug/Kg	R	S
ENDRIN KETONE	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.040	U	0.040	MDL	0.20	PQL	ug/Kg	R	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-183-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR	0.071	U	0.071	MDL	0.20	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.14	U	0.14	MDL	0.20	PQL	ug/Kg	R	S
METHOXYCHLOR	0.40	U	0.40	MDL	2.0	PQL	ug/Kg	R	S
MIREX	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	R	S
TOXAPHENE	2.6	U	2.6	MDL	7.8	PQL	ug/Kg	R	S

Sample ID: SL-219-SA5B-SS-0.0-0.5

Collected: 12/21/2010 8:59:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.44	U	0.44	MDL	2.1	PQL	ug/Kg	UJ	L
gamma-BHC (Lindane)	0.44	U	0.44	MDL	2.1	PQL	ug/Kg	UJ	L

Sample ID: SL-225-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.45	U	0.45	MDL	2.2	PQL	ug/Kg	UJ	L
gamma-BHC (Lindane)	0.45	U	0.45	MDL	2.2	PQL	ug/Kg	UJ	L

Sample ID: SL-226-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.042	U	0.042	MDL	0.20	PQL	ug/Kg	UJ	L
DELTA-BHC	0.069	J	0.044	MDL	0.20	PQL	ug/Kg	J	Z, *XIII
gamma-BHC (Lindane)	0.042	U	0.042	MDL	0.20	PQL	ug/Kg	UJ	L

Sample ID: SL-227-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:38:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.041	U	0.041	MDL	0.20	PQL	ug/Kg	UJ	L
BETA-BHC	0.92		0.073	MDL	0.20	PQL	ug/Kg	J	*XIII
gamma-BHC (Lindane)	0.041	U	0.041	MDL	0.20	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: AQ

Sample ID: EB07-SA5B-122110

Collected: 12/21/2010 12:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	0.099	U	0.099	MDL	0.50	PQL	ug/L	UJ	L
Aroclor 5442	0.099	U	0.099	MDL	0.50	PQL	ug/L	UJ	L, C
Aroclor 5460	0.099	U	0.099	MDL	0.50	PQL	ug/L	UJ	L

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: DUP15-SA5B-QC-122110

Collected: 12/21/2010 10:52:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	4.9		0.36	MDL	1.9	PQL	ug/Kg	J	S, FD
AROCLOR 1260	0.73	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z, S, FD
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	C

Sample ID: SL-006-SA5B-SB-4.0-5.0

Collected: 12/21/2010 3:29:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.5	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.43	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	C

Sample ID: SL-006-SA5B-SB-5.0-6.0

Collected: 12/21/2010 3:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.2	U	1.2	MDL	4.0	PQL	ug/Kg	UJ	C

Sample ID: SL-046-SA5B-SB-4.0-5.0

Collected: 12/21/2010 10:47:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.71	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z, FD, Q
AROCLOR 1260	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	FD
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-046-SA5B-SB-9.0-10.0

Collected: 12/21/2010 10:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	C

Sample ID: SL-047-SA5B-SB-4.0-5.0

Collected: 12/21/2010 12:54:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.4	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S
AROCLOR 1260	0.59	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	C

Sample ID: SL-159-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:37:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.9	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z, *XIII

Sample ID: SL-183-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	3.2		0.39	MDL	2.0	PQL	ug/Kg	J	*XIII
Aroclor 5460	3.8	J	1.2	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-225-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	68		4.4	MDL	23	PQL	ug/Kg	J	*XIII
AROCLOR 1260	21	J	4.4	MDL	23	PQL	ug/Kg	J	Z

Sample ID: SL-226-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.2	J	0.41	MDL	2.1	PQL	ug/Kg	J	Z

Sample ID: SL-227-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:38:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.6	J	0.40	MDL	2.1	PQL	ug/Kg	J	Z
Aroclor 5460	4.0	J	1.2	MDL	4.0	PQL	ug/Kg	J	*XIII

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8082	Matrix:	SO

Method Category:	SVOA		
Method:	8151A	Matrix:	AQ

Sample ID: EB07-SA5B-122110		Collected: 12/21/2010 12:12:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	0.17	U	0.17	MDL	0.52	PQL	ug/L	UJ	C
DALAPON	0.26	U	0.26	MDL	1.3	PQL	ug/L	UJ	C, C
DICAMBA	0.084	U	0.084	MDL	0.31	PQL	ug/L	UJ	C
DICHLOROPROP	0.17	U	0.17	MDL	0.52	PQL	ug/L	UJ	C

Method Category:	SVOA		
Method:	8151A	Matrix:	SO

Sample ID: SL-159-SA5B-SS-0.0-0.5		Collected: 12/21/2010 10:37:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.096	U	0.096	MDL	0.20	PQL	ug/Kg	UJ	C
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L

Sample ID: SL-183-SA5B-SS-0.0-0.5		Collected: 12/21/2010 10:25:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.097	U	0.097	MDL	0.20	PQL	ug/Kg	UJ	C
DINOSEB	0.95	U	0.95	MDL	2.9	PQL	ug/Kg	R	L

Sample ID: SL-219-SA5B-SS-0.0-0.5		Collected: 12/21/2010 8:59:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.61		0.11	MDL	0.22	PQL	ug/Kg	J	C, *IX
2,4,5-TP (Silvex)	0.74		0.097	MDL	0.22	PQL	ug/Kg	J	*IX
2,4-DB	24		0.80	MDL	2.2	PQL	ug/Kg	J	*IX
DINOSEB	1.0	U	1.0	MDL	3.1	PQL	ug/Kg	R	L

Sample ID: SL-225-SA5B-SS-0.0-0.5		Collected: 12/21/2010 9:35:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.44	U	0.44	MDL	0.44	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-225-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	17		0.83	MDL	2.3	PQL	ug/Kg	J	S, *IX
DINOSEB	1.1	U	1.1	MDL	3.2	PQL	ug/Kg	R	L

Sample ID: SL-226-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.10	U	0.10	MDL	0.21	PQL	ug/Kg	UJ	C
DINOSEB	0.99	U	0.99	MDL	3.0	PQL	ug/Kg	R	L

Sample ID: SL-227-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.10	U	0.10	MDL	0.21	PQL	ug/Kg	UJ	C
DINOSEB	0.97	U	0.97	MDL	2.9	PQL	ug/Kg	R	L
MCP	230	J	91	MDL	300	PQL	ug/Kg	U	B

Method Category: SVOA

Method: 8270C

Matrix: AQ

Sample ID: EB07-SA5B-122110

Collected: 12/21/2010 12:12:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	7	U	7	MDL	16	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: DUP15-SA5B-QC-122110

Collected: 12/21/2010 10:52:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	24	J	18	MDL	370	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-006-SA5B-SB-4.0-5.0

Collected: 12/21/2010 3:29:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	25	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-006-SA5B-SB-5.0-6.0

Collected: 12/21/2010 3:39:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	28	J	20	MDL	400	PQL	ug/Kg	J	Z

Sample ID: SL-046-SA5B-SB-4.0-5.0

Collected: 12/21/2010 10:47:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
1,2-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
1,2-Diphenylhydrazine/Azobenzene	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
1,3-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
1,4-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
2,4,5-TRICHLOROPHENOL	36	U	36	MDL	180	PQL	ug/Kg	UJ	Q
2,4,6-TRICHLOROPHENOL	36	U	36	MDL	180	PQL	ug/Kg	UJ	Q
2,4-DICHLOROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
2,4-DIMETHYLPHENOL	36	U	36	MDL	180	PQL	ug/Kg	UJ	Q
2,4-DINITROPHENOL	730	U	730	MDL	2200	PQL	ug/Kg	R	Q
2,4-DINITROTOLUENE	36	U	36	MDL	180	PQL	ug/Kg	UJ	Q
2,6-DINITROTOLUENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
2-CHLORONAPHTHALENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
2-CHLOROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
2-METHYLPHENOL	36	U	36	MDL	180	PQL	ug/Kg	UJ	Q
2-NITROANILINE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
2-NITROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
3,5-Dimethylphenol	36	U	36	MDL	180	PQL	ug/Kg	UJ	Q
3-NITROANILINE	36	U	36	MDL	180	PQL	ug/Kg	UJ	Q
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	Q
4-BROMOPHENYL-PHENYLETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
4-CHLORO-3-METHYLPHENOL	36	U	36	MDL	180	PQL	ug/Kg	UJ	Q
4-CHLOROPHENYL-PHENYLETHER	36	U	36	MDL	180	PQL	ug/Kg	UJ	Q
4-METHYLPHENOL	36	U	36	MDL	180	PQL	ug/Kg	UJ	Q
4-NITROANILINE	73	U	73	MDL	180	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-046-SA5B-SB-4.0-5.0

Collected: 12/21/2010 10:47:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	Q
BENZIDINE	1300	U	1300	MDL	3600	PQL	ug/Kg	UJ	Q
BENZYL ALCOHOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	Q
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
BIS(2-CHLOROETHYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHthalate	29	J	18	MDL	360	PQL	ug/Kg	J	Z, Q, Q
CARBAZOLE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
DIBENZOFURAN	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
HEXACHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
HEXACHLOROBUTADIENE	73	U	73	MDL	180	PQL	ug/Kg	UJ	Q
HEXACHLOROETHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
ISOPHORONE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
NITROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
N-NITROSO-DI-N-PROPYLAMINE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
N-NITROSODIPHENYLAMINE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
PHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q

Sample ID: SL-159-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:37:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	20	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-183-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	22	J	20	MDL	200	PQL	ug/Kg	J	Z
PHENANTHRENE	24	J	20	MDL	200	PQL	ug/Kg	J	Z
PYRENE	39	J	20	MDL	200	PQL	ug/Kg	J	Z

Sample ID: SL-219-SA5B-SS-0.0-0.5

Collected: 12/21/2010 8:59:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	41	J	21	MDL	210	PQL	ug/Kg	J	Z
ANTHRACENE	140	J	21	MDL	210	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-219-SA5B-SS-0.0-0.5

Collected: 12/21/2010 8:59:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	310	J	21	MDL	430	PQL	ug/Kg	J	Z
CARBAZOLE	29	J	21	MDL	210	PQL	ug/Kg	J	Z
DIBENZOFURAN	130	J	21	MDL	210	PQL	ug/Kg	J	Z
HEXACHLOROBENZENE	170	J	21	MDL	210	PQL	ug/Kg	J	Z
NAPHTHALENE	190	J	21	MDL	210	PQL	ug/Kg	J	Z

Sample ID: SL-225-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	150	J	22	MDL	220	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	85	J	22	MDL	440	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	170	J	22	MDL	220	PQL	ug/Kg	J	Z
DIBENZOFURAN	31	J	22	MDL	220	PQL	ug/Kg	J	Z
HEXACHLOROBENZENE	28	J	22	MDL	220	PQL	ug/Kg	J	Z

Sample ID: SL-226-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	30	J	21	MDL	210	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	170	J	21	MDL	210	PQL	ug/Kg	J	Z
FLUORANTHENE	26	J	21	MDL	210	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	140	J	21	MDL	210	PQL	ug/Kg	J	Z
PHENANTHRENE	21	J	21	MDL	210	PQL	ug/Kg	J	Z
PYRENE	23	J	21	MDL	210	PQL	ug/Kg	J	Z

Sample ID: SL-227-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:38:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	27	J	20	MDL	200	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	32	J	20	MDL	400	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: AQ

Sample ID: EB07-SA5B-122110

Collected: 12/21/2010 12:12:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	0.28	J	0.050	MDL	1.0	PQL	ug/L	U	B
Butylbenzylphthalate	0.12	J	0.050	MDL	1.0	PQL	ug/L	U	B
Diethylphthalate	0.11	J	0.050	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.46	J	0.050	MDL	1.0	PQL	ug/L	U	B
Di-n-octylphthalate	0.12	J	0.050	MDL	1.0	PQL	ug/L	J	Z
NAPHTHALENE	0.027	J	0.010	MDL	0.050	PQL	ug/L	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: DUP15-SA5B-QC-122110

Collected: 12/21/2010 10:52:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(A)PYRENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(B)FLUORANTHENE	2.2		0.73	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	0.96	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
CHRYSENE	1.2	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.91	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
NAPHTHALENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-006-SA5B-SB-4.0-5.0

Collected: 12/21/2010 3:29:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	1.7	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.7	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.97	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, L
INDENO(1,2,3-CD)PYRENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.0	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-006-SA5B-SB-5.0-6.0

Collected: 12/21/2010 3:39:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.0	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z
CHRYSENE	0.64	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
FLUORANTHENE	0.81	U	0.81	MDL	2.0	PQL	ug/Kg	UJ	L
NAPHTHALENE	1.2	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-046-SA5B-SB-4.0-5.0

Collected: 12/21/2010 10:47:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(A)PYRENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
CHRYSENE	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	FD
FLUORANTHENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-046-SA5B-SB-9.0-10.0

Collected: 12/21/2010 10:54:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	L
NAPHTHALENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-047-SA5B-SB-4.0-5.0

Collected: 12/21/2010 12:54:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	L
NAPHTHALENE	1.4	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-159-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:37:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	1.1	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.73	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.3	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-159-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:37:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.5	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	16		0.78	MDL	1.9	PQL	ug/Kg	J	L
INDENO(1,2,3-CD)PYRENE	1.1	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-183-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.88	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.1	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.3	J	7.1	MDL	21	PQL	ug/Kg	J	Z
FLUORANTHENE	45		0.79	MDL	2.0	PQL	ug/Kg	J	L
FLUORENE	1.6	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	1.8	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-219-SA5B-SS-0.0-0.5

Collected: 12/21/2010 8:59:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Butylbenzylphthalate	16	J	7.7	MDL	23	PQL	ug/Kg	J	Z

Sample ID: SL-225-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:35:00

Analysis Type: DL-BASE/NEUTRAL

Dilution: 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1100		8.9	MDL	22	PQL	ug/Kg	J	*XII
FLUORANTHENE	430		8.9	MDL	22	PQL	ug/Kg	J	L

Sample ID: SL-225-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	1.7	J	0.89	MDL	2.2	PQL	ug/Kg	J	Z
Butylbenzylphthalate	14	J	8.0	MDL	24	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-226-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.9	J	0.82	MDL	2.1	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	1.1	J	0.41	MDL	2.1	PQL	ug/Kg	J	Z
ANTHRACENE	2.0	J	0.41	MDL	2.1	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	7.4	MDL	22	PQL	ug/Kg	J	Z

Sample ID: SL-227-SA5B-SS-0.0-0.5

Collected: 12/21/2010 9:38:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	1.0	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.42	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.0	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.8	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z
FLUORANTHENE	2.1		0.81	MDL	2.0	PQL	ug/Kg	J	L
PHENANTHRENE	1.7	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z
PYRENE	1.8	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8330A

Matrix: AQ

Sample ID: EB07-SA5B-122110

Collected: 12/21/2010 12:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	0.40	U	0.40	MDL	0.60	PQL	ug/L	UJ	C

Method Category: SVOA

Method: 8330A

Matrix: SO

Sample ID: SL-006-SA5B-SB-4.0-5.0

Collected: 12/21/2010 3:29:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	83	U	83	MDL	160	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8330A

Matrix: SO

Sample ID: SL-006-SA5B-SB-5.0-6.0

Collected: 12/21/2010 3:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	93	U	93	MDL	180	PQL	ug/Kg	UJ	C

Sample ID: SL-183-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	91	U	91	MDL	180	PQL	ug/Kg	UJ	C

Method Category: VOA

Method: 8015B

Matrix: SO

Sample ID: SL-006-SA5B-SB-5.0-6.0

Collected: 12/21/2010 3:39:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	200	J	120	MDL	600	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B

Matrix: AQ

Sample ID: TB-122110

Collected: 12/21/2010 12:12:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	2	U	2	MDL	5	PQL	ug/L	UJ	C
ACETONE	6	U	6	MDL	20	PQL	ug/L	UJ	C

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: DUP15-SA5B-QC-122110

Collected: 12/21/2010 10:52:00

Analysis Type: RES

Dilution: 1.05

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.8	U	1.8	MDL	9.2	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.57	U	0.57	MDL	5.7	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	1.6	J	0.27	MDL	4.6	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-006-SA5B-SB-4.0-5.0

Collected: 12/21/2010 3:29:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.7	U	1.7	MDL	8.7	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.55	U	0.55	MDL	5.5	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.88	J	0.26	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-006-SA5B-SB-5.0-6.0

Collected: 12/21/2010 3:39:00

Analysis Type: RES

Dilution: 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	4.4	J	1.4	MDL	8.9	PQL	ug/Kg	J	Z
2-HEXANONE	1.8	U	1.8	MDL	8.9	PQL	ug/Kg	UJ	C, C
METHYL TERT-BUTYL ETHER (MTBE)	0.23	U	0.23	MDL	4.4	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	2.2	J	0.27	MDL	4.4	PQL	ug/Kg	U	B
TOLUENE	0.16	J	0.09	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-046-SA5B-SB-4.0-5.0

Collected: 12/21/2010 10:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.7	U	1.7	MDL	8.7	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.55	U	0.55	MDL	5.5	PQL	ug/Kg	UJ	Q, C
METHYLENE CHLORIDE	2.1	J	0.26	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-047-SA5B-SB-4.0-5.0

Collected: 12/21/2010 12:54:00

Analysis Type: RES

Dilution: 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.5	U	1.5	MDL	7.5	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.47	U	0.47	MDL	4.7	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	2.0	J	0.22	MDL	3.7	PQL	ug/Kg	U	B

Sample ID: SL-183-SA5B-SS-0.0-0.5

Collected: 12/21/2010 10:25:00

Analysis Type: RES

Dilution: 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.6	U	1.6	MDL	8.2	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.51	U	0.51	MDL	5.1	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.54	J	0.24	MDL	4.1	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

EDD Filename: PrepDE049__v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XIII, *IX, and *XII	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: PrepDE049_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE049

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE049
EDD Filename: DE049_v1

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

Method: 7199 Preparation Method: Gen Prep
Matrix: AQ

Sample ID	Type	Actual	Criteria	Units	Flag
EB07-SA5B-122110 (RES)	Sampling To Analysis	25.00	24.00	HOURS	J (all detects) UJ (all non-detects)

Method: 8015M Preparation Method: Gen Prep
Matrix: AQ

Sample ID	Type	Actual	Criteria	Units	Flag
EB07-SA5B-122110 (REA)	Sampling To Analysis	27.00	7.00	DAYS	J(all detects) R(all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA36B260542	1/6/2011 5:42:00 AM	N-NITROSODIMETHYLAMINE	1.95 ng/L	EB07-SA5B-122110

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB07-SA5B-122110(RES)	N-NITROSODIMETHYLAMINE	2.83 ng/L	2.83U ng/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P36308DB221937	12/30/2010 7:37:00 PM	PHOSPHORUS TIN	1.69 mg/Kg 1.24 mg/Kg	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP15-SA5B-QC-122110(RES)	TIN	2.29 mg/Kg	2.29U mg/Kg
SL-006-SA5B-SB-4.0-5.0(RES)	TIN	2.41 mg/Kg	2.41U mg/Kg
SL-006-SA5B-SB-5.0-6.0(RES)	TIN	1.62 mg/Kg	1.62U mg/Kg
SL-046-SA5B-SB-4.0-5.0(RES)	TIN	2.23 mg/Kg	2.23U mg/Kg
SL-046-SA5B-SB-9.0-10.0(RES)	TIN	1.95 mg/Kg	1.95U mg/Kg
SL-047-SA5B-SB-4.0-5.0(RES)	TIN	2.37 mg/Kg	2.37U mg/Kg
SL-159-SA5B-SS-0.0-0.5(RES)	TIN	2.03 mg/Kg	2.03U mg/Kg
SL-183-SA5B-SS-0.0-0.5(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SL-219-SA5B-SS-0.0-0.5(RES)	TIN	2.97 mg/Kg	2.97U mg/Kg
SL-225-SA5B-SS-0.0-0.5(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-226-SA5B-SS-0.0-0.5(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-227-SA5B-SS-0.0-0.5(RES)	TIN	2.04 mg/Kg	2.04U mg/Kg

Method: 6020
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P36550AB220811A	1/6/2011 8:11:00 AM	COPPER LEAD	0.00058 mg/L 0.00023 mg/L	EB07-SA5B-122110

Method Blank Outlier Report

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB07-SA5B-122110(REA5)	LEAD	0.000060 mg/L	0.000060U mg/L

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P36326BB221321A	1/5/2011 1:21:00 PM	COPPER	0.0915 mg/Kg	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5

Method: 8151A
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P04043AB241152A	1/7/2011 11:52:00 AM	MCPP	500 ug/Kg	SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-227-SA5B-SS-0.0-0.5(RES)	MCPP	230 ug/Kg	300U ug/Kg

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB26B211814A	12/22/2010 6:14:00 PM	METHYLENE CHLORIDE TOLUENE	0.55 ug/Kg 0.09 ug/Kg	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-4.0-5.0 SL-047-SA5B-SB-4.0-5.0 SL-183-SA5B-SS-0.0-0.5
VBLKB29B211244A	12/28/2010 12:44:00 PM	METHYLENE CHLORIDE O-XYLENE TOLUENE	0.39 ug/Kg 0.18 ug/Kg 0.17 ug/Kg	SL-006-SA5B-SB-5.0-6.0

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

7/15/2011 12:22:48 PM

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Method Blank Outlier Report

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method:	8260B
Matrix:	SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP15-SA5B-QC-122110(RES)	METHYLENE CHLORIDE	1.6 ug/Kg	4.6U ug/Kg
SL-006-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.88 ug/Kg	4.4U ug/Kg
SL-006-SA5B-SB-5.0-6.0(RES)	METHYLENE CHLORIDE	2.2 ug/Kg	4.4U ug/Kg
SL-006-SA5B-SB-5.0-6.0(RES)	TOLUENE	0.16 ug/Kg	4.4U ug/Kg
SL-046-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.1 ug/Kg	4.4U ug/Kg
SL-047-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.0 ug/Kg	3.7U ug/Kg
SL-183-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	0.54 ug/Kg	4.1U ug/Kg

Method:	8270C SIM
Matrix:	AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWM35B261350	1/6/2011 1:50:00 PM	BIS(2-ETHYLHEXYL)PHthalate Butylbenzylphthalate Di-n-butylphthalate	0.11 ug/L 0.10 ug/L 0.15 ug/L	EB07-SA5B-122110

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB07-SA5B-122110(RES)	BIS(2-ETHYLHEXYL)PHthalate	0.28 ug/L	1.0U ug/L
EB07-SA5B-122110(RES)	Butylbenzylphthalate	0.12 ug/L	1.0U ug/L
EB07-SA5B-122110(RES)	Di-n-butylphthalate	0.46 ug/L	1.0U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-046-SA5B-SB-4.0-5.0MS SL-046-SA5B-SB-4.0-5.0MSD (DUP15-SA5B-QC-122110 SL -006-SA5B-SB-4.0-5.0 SL -006-SA5B-SB-5.0-6.0 SL -046-SA5B-SB-4.0-5.0 SL -046-SA5B-SB-9.0-10.0 SL -047-SA5B-SB-4.0-5.0 SL -159-SA5B-SS-0.0-0.5 SL -183-SA5B-SS-0.0-0.5 SL -219-SA5B-SS-0.0-0.5 SL -225-SA5B-SS-0.0-0.5 SL -226-SA5B-SS-0.0-0.5 SL -227-SA5B-SS-0.0-0.5)	TITANIUM	289	298	75.00-125.00	-	TITANIUM	No Qual, >4x

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-046-SA5B-SB-4.0-5.0MS SL-046-SA5B-SB-4.0-5.0MSD (DUP15-SA5B-QC-122110 SL -006-SA5B-SB-4.0-5.0 SL -006-SA5B-SB-5.0-6.0 SL -046-SA5B-SB-4.0-5.0 SL -046-SA5B-SB-9.0-10.0 SL -047-SA5B-SB-4.0-5.0 SL -159-SA5B-SS-0.0-0.5 SL -183-SA5B-SS-0.0-0.5 SL -219-SA5B-SS-0.0-0.5 SL -225-SA5B-SS-0.0-0.5 SL -226-SA5B-SS-0.0-0.5 SL -227-SA5B-SS-0.0-0.5)	VANADIUM	126	165	75.00-125.00	-	VANADIUM	No Qual, >4x

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-046-SA5B-SB-4.0-5.0MS (SL-046-SA5B-SB-4.0-5.0 SL -046-SA5B-SB-9.0-10.0 SL -047-SA5B-SB-4.0-5.0 SL -159-SA5B-SS-0.0-0.5 SL -183-SA5B-SS-0.0-0.5 SL -219-SA5B-SS-0.0-0.5 SL -225-SA5B-SS-0.0-0.5 SL -226-SA5B-SS-0.0-0.5 SL -227-SA5B-SS-0.0-0.5)	FLUORIDE	76	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-046-SA5B-SB-4.0-5.0MSD (SL-046-SA5B-SB-4.0-5.0)	AROCOR 1260	-	151	39.00-149.00	-	AROCOR 1242, 1248, 1254, 1260, 1262, 1268	J(all detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-046-SA5B-SB-4.0-5.0MS SL-046-SA5B-SB-4.0-5.0MSD (DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5)	ARSENIC CHROMIUM LEAD ZINC	154 129 145 255	170 - - 243	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ARSENIC CHROMIUM LEAD ZINC	J(all detects) Zn No Qual, >4x
SL-046-SA5B-SB-4.0-5.0MS SL-046-SA5B-SB-4.0-5.0MSD (DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5)	ANTIMONY	43	44	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-046-SA5B-SB-4.0-5.0MS (DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5)	MOLYBDENUM	126	-	75.00-125.00	-	MOLYBDENUM	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-046-SA5B-SB-4.0-5.0MS SL-046-SA5B-SB-4.0-5.0MSD (DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5)	BARIUM	331	250	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-046-SA5B-SB-4.0-5.0MS SL-046-SA5B-SB-4.0-5.0MSD (DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5)	ALUMINUM MAGNESIUM	457 -	- 236	75.00-125.00 75.00-125.00	- -	ALUMINUM MAGNESIUM	No Qual, >4x
SL-046-SA5B-SB-4.0-5.0MS SL-046-SA5B-SB-4.0-5.0MSD (DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5)	IRON	-232	486	75.00-125.00	-	IRON	No Qual, >4x
SL-046-SA5B-SB-4.0-5.0MSD (DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5)	CALCIUM	-	346	75.00-125.00	23 (20.00)	CALCIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

7/15/2011 12:53:00 PM

ADR version 1.4.0.111

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-046-SA5B-SB-4.0-5.0MSD (SL-046-SA5B-SB-4.0-5.0)	3,3'-DICHLOROBENZIDINE	-	-	16.00-119.00	64 (30.00)	3,3'-DICHLOROBENZIDINE	J(all detects)
	4-CHLOROANILINE	-	-	23.00-95.00	48 (30.00)	4-CHLOROANILINE	
	ACENAPHTHYLENE	-	-	49.00-126.00	68 (30.00)	ACENAPHTHYLENE	
	ANILINE	-	-	14.00-114.00	78 (30.00)	ANILINE	
	BENZOIC ACID	-	-	10.00-173.00	59 (30.00)	BENZOIC ACID	
	HEXACHLOROCYCLOPENTADI	-	-	10.00-153.00	80 (30.00)	HEXACHLOROCYCLOPENTAD	
	PENTACHLOROPHENOL	-	-	28.00-127.00	82 (30.00)	PENTACHLOROPHENOL	
SL-046-SA5B-SB-4.0-5.0MSD (SL-046-SA5B-SB-4.0-5.0)	PYRENE	-	-	51.00-151.00	66 (30.00)	PYRENE	J(all detects) R(all non-detects)
	2,4-DINITROPHENOL	-	0	20.00-143.00	200 (30.00)	2,4-DINITROPHENOL	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-046-SA5B-SB-4.0-5.0MSD (SL-046-SA5B-SB-4.0-5.0)	1,2,4-TRICHLOROBENZENE	-	46	72.00-115.00	69 (30.00)	1,2,4-TRICHLOROBENZENE	J(all detects) UJ(all non-detects)
	1,2-DICHLOROBENZENE	-	40	68.00-108.00	70 (30.00)	1,2-DICHLOROBENZENE	
	1,2-Diphenylhydrazine/Azobenz	-	50	71.00-129.00	68 (30.00)	1,2-Diphenylhydrazine/Azobenz	
	1,3-DICHLOROBENZENE	-	39	63.00-109.00	69 (30.00)	1,3-DICHLOROBENZENE	
	1,4-DICHLOROBENZENE	-	39	70.00-100.00	74 (30.00)	1,4-DICHLOROBENZENE	
	1-METHYLNAPHTHALENE	-	46	72.00-123.00	68 (30.00)	1-METHYLNAPHTHALENE	
	2,4,5-TRICHLOROPHENOL	-	51	78.00-109.00	64 (30.00)	2,4,5-TRICHLOROPHENOL	
	2,4,6-TRICHLOROPHENOL	-	53	77.00-115.00	64 (30.00)	2,4,6-TRICHLOROPHENOL	
	2,4-DICHLOROPHENOL	-	47	78.00-117.00	68 (30.00)	2,4-DICHLOROPHENOL	
	2,4-DIMETHYLPHENOL	-	46	78.00-110.00	72 (30.00)	2,4-DIMETHYLPHENOL	
	2,4-DINITROTOLUENE	-	47	73.00-113.00	66 (30.00)	2,4-DINITROTOLUENE	
	2,6-DINITROTOLUENE	-	47	69.00-123.00	68 (30.00)	2,6-DINITROTOLUENE	
	2-CHLORONAPHTHALENE	-	47	50.00-141.00	51 (30.00)	2-CHLORONAPHTHALENE	
	2-CHLOROPHENOL	-	46	73.00-121.00	72 (30.00)	2-CHLOROPHENOL	
	2-METHYLNAPHTHALENE	-	43	76.00-114.00	69 (30.00)	2-METHYLNAPHTHALENE	
	2-METHYLPHENOL	-	46	75.00-111.00	72 (30.00)	2-METHYLPHENOL	
	2-NITROANILINE	-	52	67.00-125.00	65 (30.00)	2-NITROANILINE	
	2-NITROPHENOL	-	44	74.00-115.00	70 (30.00)	2-NITROPHENOL	
	3,5-Dimethylphenol	-	50	70.00-130.00	69 (30.00)	3,5-Dimethylphenol	
	3-NITROANILINE	-	48	59.00-122.00	65 (30.00)	3-NITROANILINE	
	4,6-DINITRO-2-METHYLPHENOL	-	17	24.00-116.00	66 (30.00)	4,6-DINITRO-2-METHYLPHEN	
	4-BROMOPHENYL-PHENYLETH	-	50	67.00-129.00	68 (30.00)	4-BROMOPHENYL-PHENYLET	
	4-CHLORO-3-METHYLPHENOL	-	46	76.00-110.00	67 (30.00)	4-CHLORO-3-METHYLPHENOL	
	4-CHLOROPHENYL-PHENYLET	-	49	53.00-130.00	65 (30.00)	4-CHLOROPHENYL-PHENYLE	
	4-METHYLPHENOL	-	43	71.00-111.00	70 (30.00)	4-METHYLPHENOL	
	4-NITROANILINE	-	38	52.00-112.00	68 (30.00)	4-NITROANILINE	
	4-NITROPHENOL	-	43	54.00-113.00	65 (30.00)	4-NITROPHENOL	
	ACENAPHTHENE	-	47	75.00-115.00	67 (30.00)	ACENAPHTHENE	
	ANTHRACENE	-	50	75.00-115.00	68 (30.00)	ANTHRACENE	
	BENZIDINE	-	26	35.00-141.00	63 (30.00)	BENZIDINE	
	BENZO(A)ANTHRACENE	-	51	65.00-122.00	66 (30.00)	BENZO(A)ANTHRACENE	
	BENZO(A)PYRENE	-	45	57.00-126.00	66 (30.00)	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	-	47	59.00-125.00	66 (30.00)	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	-	47	59.00-127.00	70 (30.00)	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	-	44	56.00-132.00	65 (30.00)	BENZO(K)FLUORANTHENE	
	BENZYL ALCOHOL	-	45	67.00-115.00	71 (30.00)	BENZYL ALCOHOL	
	BIS(2-CHLOROETHOXY)METHA	-	46	75.00-104.00	68 (30.00)	BIS(2-CHLOROETHOXY)METH	
	BIS(2-CHLOROETHYL) ETHER	-	42	60.00-116.00	73 (30.00)	BIS(2-CHLOROETHYL) ETHER	
	BIS(2-CHLOROISOPROPYL) ET	-	42	55.00-142.00	73 (30.00)	BIS(2-CHLOROISOPROPYL) E	
	BIS(2-ETHYLHEXYL)PHTHALAT	-	51	63.00-122.00	65 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	
	Butylbenzylphthalate	-	54	73.00-134.00	64 (30.00)	Butylbenzylphthalate	
	CARBAZOLE	-	51	64.00-120.00	64 (30.00)	CARBAZOLE	
	CHRYSENE	-	51	62.00-128.00	66 (30.00)	CHRYSENE	
	DIBENZO(A,H)ANTHRACENE	-	46	65.00-125.00	69 (30.00)	DIBENZO(A,H)ANTHRACENE	
	DIBENZOFURAN	-	49	71.00-112.00	67 (30.00)	DIBENZOFURAN	
	Diethylphthalate	-	50	66.00-118.00	65 (30.00)	Diethylphthalate	
	Dimethylphthalate	-	49	64.00-118.00	64 (30.00)	Dimethylphthalate	
	Di-n-butylphthalate	-	51	67.00-123.00	67 (30.00)	Di-n-butylphthalate	
	Di-n-octylphthalate	-	48	56.00-126.00	68 (30.00)	Di-n-octylphthalate	
	FLUORANTHENE	-	50	59.00-122.00	68 (30.00)	FLUORANTHENE	
	FLUORENE	-	49	60.00-125.00	66 (30.00)	FLUORENE	
	HEXACHLOROBENZENE	-	51	77.00-114.00	69 (30.00)	HEXACHLOROBENZENE	
	HEXACHLOROBUTADIENE	-	45	62.00-120.00	68 (30.00)	HEXACHLOROBUTADIENE	
	HEXACHLOROETHANE	-	31	57.00-109.00	74 (30.00)	HEXACHLOROETHANE	
	INDENO(1,2,3-CD)PYRENE	-	46	61.00-126.00	69 (30.00)	INDENO(1,2,3-CD)PYRENE	
	ISOPHORONE	-	46	73.00-102.00	68 (30.00)	ISOPHORONE	
	NAPHTHALENE	-	44	72.00-116.00	69 (30.00)	NAPHTHALENE	
	NITROBENZENE	-	45	72.00-106.00	69 (30.00)	NITROBENZENE	
	N-NITROSODIMETHYLAMINE	-	43	48.00-113.00	54 (30.00)	N-NITROSODIMETHYLAMINE	
	N-NITROSO-DI-N-PROPYLAMIN	-	44	60.00-116.00	70 (30.00)	N-NITROSO-DI-N-PROPYLAMI	
	N-NITROSODIPHENYLAMINE	-	52	86.00-145.00	68 (30.00)	N-NITROSODIPHENYLAMINE	
	PHENANTHRENE	-	49	65.00-125.00	68 (30.00)	PHENANTHRENE	
	PHENOL	-	44	58.00-126.00	73 (30.00)	PHENOL	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-046-SA5B-SB-4.0-5.0MS SL-046-SA5B-SB-4.0-5.0MSD (SL-046-SA5B-SB-4.0-5.0)	Chlorotrifluoroethylene	43	41	70.00-130.00	-	Chlorotrifluoroethylene	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03561AQ241612A P03561AY241639A (EB07-SA5B-122110)	2,4-D DICHLOROPROP	140 160	148 168	45.00-128.00 72.00-145.00	- -	2,4-D DICHLOROPROP	J (all detects)

Method: 8081A

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03573AY240031A (EB07-SA5B-122110)	4,4'-DDE	-	137	66.00-130.00	-	4,4'-DDE	J(all detects)

Method: 8082

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03574AY241535A (EB07-SA5B-122110)	AROCLOR 1260	-	142	56.00-135.00	-	AROCLOR 1242, 1248, 1254, 1260, 1262, 1268	J(all detects)
P03574AQ241612A P03574AY241554A (EB07-SA5B-122110)	Aroclor 5442	56	64	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Method: 8270C

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P6WNLCSY260804 (EB07-SA5B-122110)	BENZOIC ACID	-	-	10.00-69.00	76 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8260B

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSY53Q211359A LCSY53Y211420A (TB-122110)	1,2-DIBROMO-3-CHLOROPROP 2-BUTANONE (MEK) 2-HEXANONE	124 157 146	- 152 143	66.00-120.00 68.00-151.00 65.00-136.00	- - -	1,2-DIBROMO-3-CHLOROPRO 2-BUTANONE (MEK) 2-HEXANONE	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03640AQ240822A (SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5)	ALPHA-BHC gamma-BHC (Lindane)	33 42	- -	38.00-130.00 46.00-127.00	- -	ALPHA-BHC gamma-BHC (Lindane)	J(all detects) UJ(all non-detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10043AQ241220A (SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5)	DINOSEB	8	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P36326BQ221324A (DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5)	ANTIMONY	61	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P3LLCSQ260830 (DUP15-SA5B-QC-122110 SL -006-SA5B-SB-4.0-5.0 SL -006-SA5B-SB-5.0-6.0 SL -046-SA5B-SB-4.0-5.0 SL -046-SA5B-SB-9.0-10.0 SL -047-SA5B-SB-4.0-5.0 SL -159-SA5B-SS-0.0-0.5 SL -183-SA5B-SS-0.0-0.5 SL -219-SA5B-SS-0.0-0.5 SL -225-SA5B-SS-0.0-0.5 SL -226-SA5B-SS-0.0-0.5 SL -227-SA5B-SS-0.0-0.5)	FLUORANTHENE	76	-	78.00-120.00	-	FLUORANTHENE	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB07-SA5B-122110	N-Nitrosodimethylamine-d6	172	50.00-150.00	All Target Analytes	J(all detects)

Method: 8015M

Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB07-SA5B-122110	O-TERPHENYL	75	77.00-119.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8081A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-159-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	129	20.00-120.00	All Target Analytes	J(all detects)
SL-183-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SL-219-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	No Qual Diluted Out
SL-225-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	241	20.00-120.00	All Target Analytes	No Qual Diluted Out

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP15-SA5B-QC-122110	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J (all detects)
SL-046-SA5B-SB-9.0-10.0	DECACHLOROBIPHENYL	148	45.00-120.00	All Target Analytes	J(all detects)
SL-047-SA5B-SB-4.0-5.0	DECACHLOROBIPHENYL	133	45.00-120.00	All Target Analytes	J(all detects)
SL-225-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	608	45.00-120.00	All Target Analytes	No Qual Diluted Out

Method: 8151A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-225-SA5B-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	243	36.00-156.00	All Target Analytes	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-046-SA5B-SB-4.0-5.0	DUP15-SA5B-QC-122110			
MOISTURE	8.1	8.7	7		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-046-SA5B-SB-4.0-5.0	DUP15-SA5B-QC-122110			
FLUORIDE	3.1	2.4	25	50.00	No Qualifiers Applied

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-046-SA5B-SB-4.0-5.0	DUP15-SA5B-QC-122110			
ALUMINUM	13700	12400	10	50.00	No Qualifiers Applied
BORON	3.08	4.57	39	50.00	
CALCIUM	3860	4610	18	50.00	
IRON	19900	21000	5	50.00	
LITHIUM	27.1	28.8	6	50.00	
MAGNESIUM	5110	5690	11	50.00	
MANGANESE	260	259	0	50.00	
PHOSPHORUS	393	429	9	50.00	
POTASSIUM	3360	3430	2	50.00	
SODIUM	121	124	2	50.00	
STRONTIUM	13.9	12.3	12	50.00	
TIN	2.23	2.29	3	50.00	
TITANIUM	1250	1240	1	50.00	
Zirconium	1.15	5.27 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-046-SA5B-SB-4.0-5.0	DUP15-SA5B-QC-122110			
ANTIMONY	0.0861	0.0697	21	50.00	No Qualifiers Applied
ARSENIC	3.99	4.37	9	50.00	
BARIUM	79.8	99.5	22	50.00	
BERYLLIUM	0.510	0.487	5	50.00	
CADMIUM	0.0841	0.100	17	50.00	
CHROMIUM	15.1	19.2	24	50.00	
COBALT	4.73	6.06	25	50.00	
COPPER	7.35	8.14	10	50.00	
LEAD	4.86	4.54	7	50.00	
MOLYBDENUM	0.390	0.336	15	50.00	
NICKEL	9.75	11.7	18	50.00	
SELENIUM	0.173	0.136	24	50.00	
SILVER	0.0186	0.0210	12	50.00	
THALLIUM	0.296	0.341	14	50.00	
VANADIUM	45.6	40.6	12	50.00	
ZINC	54.2	67.6	22	50.00	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-046-SA5B-SB-4.0-5.0	DUP15-SA5B-QC-122110			
HEXAVALENT CHROMIUM	0.29	1.1 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 7471A

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-046-SA5B-SB-4.0-5.0	DUP15-SA5B-QC-122110			
MERCURY	0.0067	0.107 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-046-SA5B-SB-4.0-5.0	DUP15-SA5B-QC-122110			
AROCLOR 1254	0.71	4.9	149	50.00	J(all detects)
AROCLOR 1260	1.8 U	0.73	200	50.00	UJ(all non-detects)

Method: 8260B

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-046-SA5B-SB-4.0-5.0	DUP15-SA5B-QC-122110			
ACETONE	21	17	21	50.00	No Qualifiers Applied
METHYLENE CHLORIDE	2.1	1.6	27	50.00	

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-046-SA5B-SB-4.0-5.0	DUP15-SA5B-QC-122110			
NAPHTHALENE	2.0	1.4	35	50.00	No Qualifiers Applied
BENZO(A)ANTHRACENE	1.8 U	1.5	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)PYRENE	1.8 U	1.4	200	50.00	
BENZO(B)FLUORANTHENE	1.8 U	2.2	200	50.00	
BENZO(G,H,I)PERYLENE	1.8 U	1.2	200	50.00	
BENZO(K)FLUORANTHENE	1.8 U	0.96	200	50.00	
CHRYSENE	1.8 U	1.2	200	50.00	
INDENO(1,2,3-CD)PYRENE	1.8 U	0.91	200	50.00	

Method: 8270C

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-046-SA5B-SB-4.0-5.0	DUP15-SA5B-QC-122110			
BIS(2-ETHYLHEXYL)PHTHALATE	29	24	19	50.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-046-SA5B-SB-4.0- 5.0	DUP15-SA5B-QC- 122110			
PH	8.82	8.80	0	50.00	No Qualifiers Applied

Method: ASTM D1498

Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-046-SA5B-SB-4.0- 5.0	DUP15-SA5B-QC- 122110			
Oxidation Reduction Potential	364	409	12		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB07-SA5B-122110	LEAD	J	0.000060	0.0010	PQL	mg/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB07-SA5B-122110	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.28	1.0	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.12	1.0	PQL	ug/L	
	Diethylphthalate	J	0.11	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.46	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.12	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.027	0.050	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5B-SB-4.0-5.0	Nitrate-NO3	J	1.5	1.6	PQL	mg/Kg	J (all detects)
SL-219-SA5B-SS-0.0-0.5	FLUORIDE	J	1.2	1.3	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA5B-QC-122110	BORON	J	4.57	5.27	PQL	mg/Kg	J (all detects)
	TIN	J	2.29	10.5	PQL	mg/Kg	
SL-006-SA5B-SB-4.0-5.0	TIN	J	2.41	10.8	PQL	mg/Kg	J (all detects)
SL-006-SA5B-SB-5.0-6.0	TIN	J	1.62	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.25	5.76	PQL	mg/Kg	
SL-046-SA5B-SB-4.0-5.0	BORON	J	3.08	5.23	PQL	mg/Kg	J (all detects)
	TIN	J	2.23	10.5	PQL	mg/Kg	
	Zirconium	J	1.15	5.23	PQL	mg/Kg	
SL-046-SA5B-SB-9.0-10.0	SODIUM	J	102	111	PQL	mg/Kg	J (all detects)
	TIN	J	1.95	11.1	PQL	mg/Kg	
	Zirconium	J	2.06	5.55	PQL	mg/Kg	
SL-047-SA5B-SB-4.0-5.0	TIN	J	2.37	11.1	PQL	mg/Kg	J (all detects)
SL-159-SA5B-SS-0.0-0.5	SODIUM	J	74.8	111	PQL	mg/Kg	J (all detects)
	TIN	J	2.03	11.1	PQL	mg/Kg	
	Zirconium	J	1.43	5.55	PQL	mg/Kg	
SL-183-SA5B-SS-0.0-0.5	SODIUM	J	91.7	119	PQL	mg/Kg	J (all detects)
	TIN	J	2.51	11.9	PQL	mg/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-219-SA5B-SS-0.0-0.5	TIN Zirconium	J	2.97	12.5	PQL	mg/Kg	J (all detects)
		J	5.46	6.26	PQL	mg/Kg	
SL-225-SA5B-SS-0.0-0.5	TIN Zirconium	J	2.71	13.1	PQL	mg/Kg	J (all detects)
		J	1.60	6.53	PQL	mg/Kg	
SL-226-SA5B-SS-0.0-0.5	TIN Zirconium	J	2.62	12.1	PQL	mg/Kg	J (all detects)
		J	1.27	6.04	PQL	mg/Kg	
SL-227-SA5B-SS-0.0-0.5	TIN Zirconium	J	2.04	12.0	PQL	mg/Kg	J (all detects)
		J	1.41	6.01	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA5B-QC-122110	ANTIMONY CADMIUM SELENIUM SILVER	J	0.0697	0.217	PQL	mg/Kg	J (all detects)
		J	0.100	0.108	PQL	mg/Kg	
		J	0.136	0.434	PQL	mg/Kg	
		J	0.0210	0.108	PQL	mg/Kg	
SL-006-SA5B-SB-4.0-5.0	CADMIUM SELENIUM SILVER	J	0.0677	0.104	PQL	mg/Kg	J (all detects)
		J	0.125	0.418	PQL	mg/Kg	
		J	0.0270	0.104	PQL	mg/Kg	
SL-006-SA5B-SB-5.0-6.0	ANTIMONY SELENIUM THALLIUM	J	0.147	0.233	PQL	mg/Kg	J (all detects)
		J	0.0610	0.465	PQL	mg/Kg	
		J	0.0577	0.116	PQL	mg/Kg	
SL-046-SA5B-SB-4.0-5.0	ANTIMONY CADMIUM SELENIUM SILVER	J	0.0861	0.207	PQL	mg/Kg	J (all detects)
		J	0.0841	0.104	PQL	mg/Kg	
		J	0.173	0.415	PQL	mg/Kg	
		J	0.0186	0.104	PQL	mg/Kg	
SL-046-SA5B-SB-9.0-10.0	ANTIMONY SELENIUM SILVER	J	0.105	0.220	PQL	mg/Kg	J (all detects)
		J	0.167	0.440	PQL	mg/Kg	
		J	0.0387	0.110	PQL	mg/Kg	
SL-047-SA5B-SB-4.0-5.0	SELENIUM SILVER	J	0.187	0.425	PQL	mg/Kg	J (all detects)
		J	0.0405	0.106	PQL	mg/Kg	
SL-159-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM	J	0.0779	0.224	PQL	mg/Kg	J (all detects)
		J	0.185	0.448	PQL	mg/Kg	
SL-183-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.122	0.235	PQL	mg/Kg	J (all detects)
		J	0.194	0.470	PQL	mg/Kg	
		J	0.0498	0.118	PQL	mg/Kg	
SL-219-SA5B-SS-0.0-0.5	SELENIUM	J	0.385	0.491	PQL	mg/Kg	J (all detects)
SL-225-SA5B-SS-0.0-0.5	SELENIUM	J	0.518	0.527	PQL	mg/Kg	J (all detects)
SL-226-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM	J	0.147	0.244	PQL	mg/Kg	J (all detects)
		J	0.249	0.488	PQL	mg/Kg	
SL-227-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM	J	0.0750	0.240	PQL	mg/Kg	J (all detects)
		J	0.174	0.481	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.29	1.1	PQL	mg/Kg	J (all detects)
SL-006-SA5B-SB-5.0-6.0	HEXAVALENT CHROMIUM	J	0.83	1.2	PQL	mg/Kg	J (all detects)
SL-046-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.29	1.1	PQL	mg/Kg	J (all detects)
SL-047-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-159-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.39	1.2	PQL	mg/Kg	J (all detects)
SL-183-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.2	PQL	mg/Kg	J (all detects)
SL-219-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.47	1.3	PQL	mg/Kg	J (all detects)
SL-225-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.32	1.3	PQL	mg/Kg	J (all detects)
SL-226-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.65	1.2	PQL	mg/Kg	J (all detects)
SL-227-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.86	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5B-SB-4.0-5.0	MERCURY	J	0.0036	0.107	PQL	mg/Kg	J (all detects)
SL-046-SA5B-SB-4.0-5.0	MERCURY	J	0.0067	0.106	PQL	mg/Kg	J (all detects)
SL-047-SA5B-SB-4.0-5.0	MERCURY	J	0.0043	0.108	PQL	mg/Kg	J (all detects)
SL-159-SA5B-SS-0.0-0.5	MERCURY	J	0.0229	0.112	PQL	mg/Kg	J (all detects)
SL-183-SA5B-SS-0.0-0.5	MERCURY	J	0.0361	0.118	PQL	mg/Kg	J (all detects)
SL-226-SA5B-SS-0.0-0.5	MERCURY	J	0.0805	0.115	PQL	mg/Kg	J (all detects)
SL-227-SA5B-SS-0.0-0.5	MERCURY	J	0.0146	0.116	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5B-SB-5.0-6.0	METHANOL	J	200	600	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-183-SA5B-SS-0.0-0.5	EFH (C15-C20)	J	2.1	2.9	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-226-SA5B-SS-0.0-0.5	DELTA-BHC	J	0.069	0.20	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA5B-QC-122110	AROCLOR 1260	J	0.73	1.9	PQL	ug/Kg	J (all detects)
SL-006-SA5B-SB-4.0-5.0	AROCLOR 1254	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.43	1.8	PQL	ug/Kg	
SL-046-SA5B-SB-4.0-5.0	AROCLOR 1254	J	0.71	1.8	PQL	ug/Kg	J (all detects)
SL-047-SA5B-SB-4.0-5.0	AROCLOR 1254	J	1.4	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.59	1.9	PQL	ug/Kg	
SL-159-SA5B-SS-0.0-0.5	Aroclor 5460	J	1.9	3.8	PQL	ug/Kg	J (all detects)
SL-183-SA5B-SS-0.0-0.5	Aroclor 5460	J	3.8	3.9	PQL	ug/Kg	J (all detects)
SL-225-SA5B-SS-0.0-0.5	AROCLOR 1260	J	21	23	PQL	ug/Kg	J (all detects)
SL-226-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.2	2.1	PQL	ug/Kg	J (all detects)
SL-227-SA5B-SS-0.0-0.5	AROCLOR 1248	J	1.6	2.1	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-227-SA5B-SS-0.0-0.5	MCPP	J	230	300	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA5B-QC-122110	METHYLENE CHLORIDE	J	1.6	4.6	PQL	ug/Kg	J (all detects)
SL-006-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.88	4.4	PQL	ug/Kg	J (all detects)
SL-006-SA5B-SB-5.0-6.0	2-BUTANONE (MEK)	J	4.4	8.9	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	2.2	4.4	PQL	ug/Kg	
	TOLUENE	J	0.16	4.4	PQL	ug/Kg	
SL-046-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	2.1	4.4	PQL	ug/Kg	J (all detects)
SL-047-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	2.0	3.7	PQL	ug/Kg	J (all detects)
SL-183-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	0.54	4.1	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA5B-QC-122110	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	370	PQL	ug/Kg	J (all detects)
SL-006-SA5B-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	25	360	PQL	ug/Kg	J (all detects)
SL-006-SA5B-SB-5.0-6.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	28	400	PQL	ug/Kg	J (all detects)
SL-046-SA5B-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	29	360	PQL	ug/Kg	J (all detects)
SL-159-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	390	PQL	ug/Kg	J (all detects)
SL-183-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	22	200	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	24	200	PQL	ug/Kg	
	PYRENE	J	39	200	PQL	ug/Kg	
SL-219-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	41	210	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	140	210	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	310	430	PQL	ug/Kg	
	CARBAZOLE	J	29	210	PQL	ug/Kg	
	DIBENZOFURAN	J	130	210	PQL	ug/Kg	
	HEXACHLOROBENZENE	J	170	210	PQL	ug/Kg	
SL-225-SA5B-SS-0.0-0.5	NAPHTHALENE	J	190	210	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	150	220	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	85	440	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	170	220	PQL	ug/Kg	
SL-226-SA5B-SS-0.0-0.5	DIBENZOFURAN	J	31	220	PQL	ug/Kg	J (all detects)
	HEXACHLOROBENZENE	J	28	220	PQL	ug/Kg	
	BENZO(A)PYRENE	J	30	210	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	170	210	PQL	ug/Kg	
	FLUORANTHENE	J	26	210	PQL	ug/Kg	
SL-227-SA5B-SS-0.0-0.5	INDENO(1,2,3-CD)PYRENE	J	140	210	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	21	210	PQL	ug/Kg	
	PYRENE	J	23	210	PQL	ug/Kg	
SL-227-SA5B-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	27	200	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	32	400	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA5B-QC-122110	BENZO(A)ANTHRACENE	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.96	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.2	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.91	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.4	1.8	PQL	ug/Kg	
SL-006-SA5B-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.97	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.4	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.0	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE049

Laboratory: LL

EDD Filename: DE049_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5B-SB-5.0-6.0	BENZO(B)FLUORANTHENE	J	1.0	2.0	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.64	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	1.2	2.0	PQL	ug/Kg	
SL-046-SA5B-SB-9.0-10.0	NAPHTHALENE	J	1.3	1.9	PQL	ug/Kg	J (all detects)
SL-047-SA5B-SB-4.0-5.0	NAPHTHALENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
SL-159-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	0.73	1.9	PQL	ug/Kg	
	ANTHRACENE	J	1.3	1.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.5	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.3	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.9	PQL	ug/Kg	
SL-183-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.88	2.0	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.1	2.0	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.3	21	PQL	ug/Kg	
	FLUORENE	J	1.6	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	1.8	2.0	PQL	ug/Kg	
SL-219-SA5B-SS-0.0-0.5	Butylbenzylphthalate	J	16	23	PQL	ug/Kg	J (all detects)
SL-225-SA5B-SS-0.0-0.5	ACENAPHTHENE	J	1.7	2.2	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	14	24	PQL	ug/Kg	
SL-226-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.9	2.1	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	1.1	2.1	PQL	ug/Kg	
	ANTHRACENE	J	2.0	2.1	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	22	PQL	ug/Kg	
SL-227-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	1.0	2.0	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	0.42	2.0	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.0	2.0	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.8	2.0	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.4	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	1.7	2.0	PQL	ug/Kg	
	PYRENE	J	1.8	2.0	PQL	ug/Kg	

Enclosure II

EPA Level IV Validation Reports

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 21, 2010

LDC Report Date: July 11, 2011

Matrix: Soil/Water

Parameters: Volatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE049

Sample Identification

DUP15-SA5B-QC-122110
SL-006-SA5B-SB-4.0-5.0
SL-006-SA5B-SB-5.0-6.0
SL-046-SA5B-SB-4.0-5.0
SL-047-SA5B-SB-4.0-5.0
SL-183-SA5B-SS-0.0-0.5
TB-122110
SL-046-SA5B-SB-4.0-5.0MS
SL-046-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 8 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for all samples were reported at 6.4°C to 9.0°C upon receipt by the laboratory.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
12/22/10	Chlorotrifluoroethene	27	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-4.0-5.0 SL-047-SA5B-SB-4.0-5.0 SL-183-SA5B-SS-0.0-0.5 SL-046-SA5B-SB-4.0-5.0MS SL-046-SA5B-SB-4.0-5.0MSD VBLKB26	J (all detects) UJ (all non-detects)	A
12/23/10	1,2-Dibromo-3-chloropropane	26	TB-122110 VBLKY53	J (all detects) UJ (all non-detects)	A

Date	Compound	%D	Associated Samples	Flag	A or P
12/28/10	2-Hexanone Methyl-tert-butyl ether	26 27	SL-006-SA5B-SB-5.0-6.0 VBLKB29	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
11/10/10	Acetone	40	TB-122110 VBLKY53	J (all detects) UJ (all non-detects)	A
11/23/10	2-Hexanone	28	All soil samples in SDG DE049	J (all detects) UJ (all non-detects)	A

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
VBLKB26	12/22/10	Methylene chloride Toluene	0.5 ug/Kg 0.09 ug/Kg	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-4.0-5.0 SL-047-SA5B-SB-4.0-5.0 SL-183-SA5B-SS-0.0-0.5
VBLKB29	12/28/10	Methylene chloride Toluene o-Xylene	0.4 ug/Kg 0.2 ug/Kg 0.2 ug/Kg	SL-006-SA5B-SB-5.0-6.0

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
DUP15-SA5B-QC-122110	Methylene chloride	1.6 ug/Kg	4.6U ug/Kg

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
SL-006-SA5B-SB-4.0-5.0	Methylene chloride	0.88 ug/Kg	4.4U ug/Kg
SL-006-SA5B-SB-5.0-6.0	Methylene chloride Toluene	2.2 ug/Kg 0.16 ug/Kg	4.4U ug/Kg 4.4U ug/Kg
SL-046-SA5B-SB-4.0-5.0	Methylene chloride	2.1 ug/Kg	4.4U ug/Kg
SL-047-SA5B-SB-4.0-5.0	Methylene chloride	2.0 ug/Kg	3.7U ug/Kg
SL-183-SA5B-SS-0.0-0.5	Methylene chloride	0.54 ug/Kg	4.1U ug/Kg

Sample TB-122110 was identified as a trip blank. No volatile contaminants were found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-046-SA5B-SB-4.0-5.0MS/MSD (SL-046-SA5B-SB-4.0-5.0)	Chlorotrifluoroethene	43 (70-130)	41 (70-130)	-	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
LCS/D Y53 (TB-122110 VBLKY53)	2-Butanone 2-Hexanone 1,2-Dibromo-3-chloropropane	157 (66-151) 146 (65-136) 124 (66-120)	152 (66-151) 143 (65-136) -	- - -	J (all detects) J (all detects) J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE049	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples DUP15-SA5B-QC-122110 and SL-046-SA5B-SB-4.0-5.0 were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	DUP15-SA5B-QC-122110	SL-046-SA5B-SB-4.0-5.0			
Acetone	17	21	21 (≤50)	-	-
Methylene chloride	1.6	2.1	27 (≤50)	-	-

Santa Susana Field Laboratory
Volatiles - Data Qualification Summary - SDG DE049

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-4.0-5.0 SL-047-SA5B-SB-4.0-5.0 SL-183-SA5B-SS-0.0-0.5	Chlorotrifluoroethene	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE049	TB-122110	1,2-Dibromo-3-chloropropane	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE049	SL-006-SA5B-SB-5.0-6.0	2-Hexanone Methyl-tert-butyl ether	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE049	TB-122110	Acetone	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE049	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-047-SA5B-SB-4.0-5.0 SL-183-SA5B-SS-0.0-0.5	2-Hexanone	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE049	SL-046-SA5B-SB-4.0-5.0	Chlorotrifluoroethene	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(Q)
DE049	TB-122110	2-Butanone 2-Hexanone 1,2-Dibromo-3-chloropropane	J (all detects) J (all detects) J (all detects)	P	Laboratory control samples (%R) (L)
DE049	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-047-SA5B-SB-4.0-5.0 SL-183-SA5B-SS-0.0-0.5 TB-122110	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Volatiles - Laboratory Blank Data Qualification Summary - SDG DE049

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE049	DUP15-SA5B-QC-122110	Methylene chloride	4.6U ug/Kg	A	B
DE049	SL-006-SA5B-SB-4.0-5.0	Methylene chloride	4.4U ug/Kg	A	B

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE049	SL-006-SA5B-SB-5.0-6.0	Methylene chloride Toluene	4.4U ug/Kg 4.4U ug/Kg	A	B
DE049	SL-046-SA5B-SB-4.0-5.0	Methylene chloride	4.4U ug/Kg	A	B
DE049	SL-047-SA5B-SB-4.0-5.0	Methylene chloride	3.7U ug/Kg	A	B
DE049	SL-183-SA5B-SS-0.0-0.5	Methylene chloride	4.1U ug/Kg	A	B

Santa Susana Field Laboratory

Volatiles - Field Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	SW	Sampling dates: 12/21/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	% RSD $\leq 30\%$ $\checkmark$
IV.	Continuing calibration/ICV	SW	CV/ICV $\leq 25\%$
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	SW	LCS 1b
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 1, 4
XVII.	Field blanks	NB	TB = 7

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil + Water

1	DUP15-SA5B-QC-122110	D	11	VBK B26	21		31	
2	SL-006-SA5B-SB-4.0-5.0		12	VBK B29	22		32	
3	SL-006-SA5B-SB-5.0-6.0		13	VBK X53	23		33	
4	SL-046-SA5B-SB-4.0-5.0	D	14		24		34	
5	SL-047-SA5B-SB-4.0-5.0		15		25		35	
6	SL-183-SA5B-SS-0.0-0.5		16		26		36	
7	TB-122110	(W)	17		27		37	
8	SL-046-SA5B-SB-4.0-5.0MS		18		28		38	
9	SL-046-SA5B-SB-4.0-5.0MSD		19		29		39	
10			20		30		40	

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.		/		
II. GC/MS instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Was a curve fit used for evaluation?	/			
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	/			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	/			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Were all percent differences (%D) < 25% and relative response factors (RRF) > 0.05?		/		
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/			
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		/		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		/		
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		/		
Were the performance evaluation (PE) samples within the acceptance limits?			/	
X. Internal Standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	/			
Were retention times within + 30 seconds of the associated calibration standard?	/			
XI. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	/			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	/			
Were chromatogram peaks verified and accounted for?	/			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	/			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			/	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?			/	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?		/		
XIV. System performance				
System performance was found to be acceptable.	/			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target compounds were detected in the field duplicates.	/			
XVII. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.		/		

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC. 1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl chloride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN. <i>Chlorotrifluoroethene</i>
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF; ** = Calibration check compounds (CCC) for %RSD.

All circled dates have exceeded the technical holding times.

Y(N) N/A Were all cooler temperatures within validation criteria?

Y/N/N/A Were air bubbles > 1/4 inch or headspace present in the vials?

[illegible]

TECHNICAL HOLDING TIME CRITERIA

Water unpreserved:

Aromatic within 7 days, non-aromatic within 14 days of sample collection.

Water preserved:

Within 14 days of sample collection.

Soil:

Within 14 days of sample collection.

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Was a MS/MSD analyzed every 20 samples of each matrix?

Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

[illegible]

VALIDATION FINDINGS WORKSHEET

Laboratory Control Samples (LCS)

Page: 1 of 1
 Reviewer: JN
 2nd Reviewer: Q

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a LCS required?
Were the LCS percent

Was a LCS required?
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

[illegible]

VALIDATION FINDINGS WORKSHEET
Field DuplicatesPage: 1 of 1
Reviewer: JK
2nd Reviewer: AK**METHOD:** GC MS Volatiles (EPA SW 846 Method 8260B)Y N NA
Y N NA

Were field duplicate pairs identified in this SDG?

Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ug/kg)		($\leq 50\%$) RPD	Qualifications (Parent only)
	1	4		
Acetone	17	21	21	
Methylene chloride	1.6	2.1	27	

LDC #: 25750 Fla

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 2
Reviewer: JVG
2nd Reviewer: CA

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is})/(A_{is})(C_x)$$

average RRF = sum of the RRF's/number of standards

$$\%RSD = 100 * (S/X)$$

A_x = Area of Compound

C_x = Concentration of compound

S = Standard deviation of the RRFs

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 50 std)	Recalculated RRF (RRF 50 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	11/23/10	Acetone (FBZ)	0.0717	0.0717	0.0723	0.0723	8	8
	HP09953		Toluene (CBZ)	0.7997	0.7997	0.8561	0.8561	9	9
			1,1,2,2-TCA (DCB)	0.7128	0.7128	0.7300	0.7300	8	8

Cis/Cx	Ax	Ais
50/100	207734	1448770
50/50	825663	1032447
50/50	408310	572795

Conc	Acetone	Toluene	1,1,2,2-TCA
4	0.0811	1.0037	0.8383
10	0.0760	0.8695	0.7400
20	0.0660	0.8578	0.7113
50	0.0717	0.7997	0.7128
100	0.0721	0.7955	0.6946
300	0.0671	0.8105	0.6830
S =	0.0723	0.8561	0.7300
X =	0.0056	0.0786	0.0565

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750 F1A

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation VerificationPage: 2 of 2
Reviewer: JVG
2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is})/(A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

 A_x = Area of Compound C_x = Concentration of compound

S = Standard deviation of the RRFs

 A_{is} = Area of associated internal standard C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 50 std)	Recalculated RRF (RRF 50 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	11/10/10	Acetone (FBZ)	0.0383	0.0717	0.0428	0.0428	7	7
	HP09355		Toluene (CBZ)	0.9808	0.7997	0.9925	0.9925	5	5
			1,1,2,2-TCA (DCB)	0.9560	0.7128	0.9367	0.9367	5	5

Cis/Cx	Ax	Ais
50/100	207734	1448770
50/50	825663	1032447
50/50	408310	572795

Conc	Acetone	Toluene	1,1,2,2-TCA
4	0.0460	0.9590	0.9316
10	0.0448	0.9500	0.9708
20	0.0434	0.9747	0.9784
50	0.0383	0.9808	0.9560
100	0.0409	1.0060	0.9389
300	0.0436	1.0844	0.8443
S =	0.0428	0.9925	0.9367
X =	0.0028	0.0490	0.0487

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC # 25750 FlaVALIDATION FINDINGS WORKSHEET
Continuing Calibration Results VerificationPage: 1 of 2
Reviewer: JVG
2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

Where:

 $\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$ $\text{RRF} = (\text{Ax}) (\text{Cis}) / (\text{Ais}) (\text{Cx})$

ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

Ax = Area of compound,

Cx = Concentration of compound,

Ais = Area of associated internal standard

Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported % D	Recalculated %D
1	bd20c02	12/22/10	Acetone (FBZ)	0.0723	0.0795	0.0795	10	10
	HP09953		Toluene (CBZ)	0.8561	0.8740	0.8740	2	2
			1,1,2,2-TCA (DCB)	0.7300	0.7339	0.7339	1	1
2	bd28c01	12/28/10	Acetone (FBZ)	0.0723	0.0740	0.0740	2	2
	HP09953		Toluene (CBZ)	0.8561	0.7924	0.7924	7	7
			1,1,2,2-TCA (DCB)	0.7300	0.6781	0.6781	7	7

CCV1

Cis/Cx	Compound	Response cpd	Response IS	Response cpd	Response IS
50/100	Acetone (FBZ)	184345	1159838	209092	1411859
50/50	Toluene (CBZ)	707357	809373	809743	1021835
50/50	1,1,2,2-TCA (DCB)	341302	465071	410869	605880

CCV2

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

Where:
% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$
RRF = $(A_x)(C_{is}) / (A_{is})(C_x)$
Cx = Concentration of compound,
Ais = Area of associated internal standard
Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported % D	Recalculated %D
1	yd23c15	12/23/10	Acetone (FBZ)	0.0428	0.0490	0.0490	14	14
	HP09355		Toluene (CBZ)	0.9925	0.9686	0.9686	2	2
			1,1,2,2-TCA (DCB)	0.9367	0.9829	0.9829	5	5

CCV1

Cis/Cx	Compound	Response cpd	Response IS
50/100	Acetone (FBZ)	126613	1292380
50/50	Toluene (CBZ)	866653	894733
50/50	1,1,2,2-TCA (DCB)	531639	540894

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	50	48.7	97	97	2
Bromofluorobenzene	1	45.96	92	92	1
1,2-Dichloroethane-d4	1	50.6	102	102	1
Dibromofluoromethane	1	52.4	105	105	5

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

LDC #: 25750 F16

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1

Reviewer: JVL

2nd Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 \cdot (\text{SSC} - \text{SC}) / \text{SA}$$

Where: SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

$$\text{RPD} = 100 \cdot \text{MSC} - \text{MSC} / 2 \cdot (\text{MSC} + \text{MSDC})$$

MSC = Matrix spike concentration

MSDC = Matrix spike duplicate concentration

MS/MSD sample: 8/9

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	20.4	21.4	0	20.0	20.9	98	98	98	98	0	4
Trichloroethene				17.0	18.1	89	84	84	84	0	6
Benzene				16.8	20.0	92	92	94	93.5	✓	6
Toluene				16.4	17.6	80	80	84	84	✓	7
Chlorobenzene			✓	15.7	16.8	77	77	78	78	1	1

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Lab calcd RPD based on %R instead of conc.

LDC #: 25750 Fra

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: 1 of 1

Reviewer: JVG

2nd reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y\N N/A . Were all reported results recalculated and verified for all level IV samples?

Y/N, N/A	Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} \approx \frac{(A_s)(I_s)(DF)}{(A_{ss})(RRF)(V_o)(\%S)}$$
$$A_x = \text{Area of the characteristic ion (EICP) for the compound to be measured}$$

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_a = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #1, 1:

$$\text{Conc.} = \frac{(21685)(50)(5 \text{ ml})(6)}{(1005033)(0.0723)(4.78 \text{ g})(0.913)}$$

$$= 17 \text{ ug/kg}$$

[illegible]

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 21, 2010

LDC Report Date: July 11, 2011

Matrix: Soil/Water

Parameters: 1,4-Dioxane

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE049

Sample Identification

DUP15-SA5B-QC-122110

SL-006-SA5B-SB-4.0-5.0

SL-006-SA5B-SB-5.0-6.0

SL-046-SA5B-SB-4.0-5.0

SL-047-SA5B-SB-4.0-5.0

SL-183-SA5B-SS-0.0-0.5

TB-122110

SL-046-SA5B-SB-4.0-5.0MS

SL-046-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 8 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B using Selected Ion Monitoring (SIM) for 1,4-Dioxane.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for all samples were reported at 6.4°C to 9.0°C upon receipt by the laboratory.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for 1,4-Dioxane.

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 25.0% for 1,4-Dioxane.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for 1,4-Dioxane.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No 1,4-Dioxane was found in the method blanks.

Sample TB-122110 was identified as a trip blank. No 1,4-Dioxane was found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE049	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples DUP15-SA5B-QC-122110 and SL-046-SA5B-SB-4.0-5.0 were identified as field duplicates. No 1,4-Dioxane were detected in any of the samples.

Santa Susana Field Laboratory
1,4-Dioxane - Data Qualification Summary - SDG DE049

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-047-SA5B-SB-4.0-5.0 SL-183-SA5B-SS-0.0-0.5 TB-122110	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
1,4-Dioxane - Field Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

LDC #: 25750F1b

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE049

Level IV

Laboratory: Lancaster Laboratories

Date: 7/05/11

Page: 1 of 1

Reviewer: JVB

2nd Reviewer: A

METHOD: GC/MS 1,4-Dioxane (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	SW	Sampling dates: 12/21/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	$\sigma_0 \text{ RSD} \leq 30\%$
IV.	Continuing calibration/ICV	A	$\text{CCV/ICV} \leq 25\%$
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LES 16
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	ND	$D = 1, 4$
XVII.	Field blanks	ND	$TB = 7$

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil + Water

1	DUP15-SA5B-QC-122110	11	VBLKE79	21		31	
2	SL-006-SA5B-SB-4.0-5.0	12	VBLKE78	22		32	
3	SL-006-SA5B-SB-5.0-6.0	13	VBLKE75	23		33	
4	SL-046-SA5B-SB-4.0-5.0	14		24		34	
5	SL-047-SA5B-SB-4.0-5.0	15		25		35	
6	SL-183-SA5B-SS-0.0-0.5	16		26		36	
7	TB-122110 (W)	17		27		37	
8	SL-046-SA5B-SB-4.0-5.0MS	18		28		38	
9	SL-046-SA5B-SB-4.0-5.0MSD	19		29		39	
10		20		30		40	

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	☒	☐	☐	
Were all samples analyzed within the 12 hour clock criteria?	☒	☐	☐	
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	☒	☐	☐	
Was a curve fit used for evaluation?	☒	☐	☐	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990 ?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ?	☒	☐	☐	
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	☒	☐	☐	
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	☒	☐	☐	
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) > 0.05 ?	☒	☐	☐	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☒	☐	☐	
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	☒	☐	☐	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	☒	☐	☐	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☒	☐	☐	
Was a MS/MSD analyzed every 20 samples of each matrix?	☒	☐	☐	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☒	☐	☐	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		/		
Were the performance evaluation (PE) samples within the acceptance limits?			/	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	/			
Were retention times within + 30 seconds of the associated calibration standard?	/			
XI. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	/			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	/			
Were chromatogram peaks verified and accounted for?	/			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	/			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			/	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?			/	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?		/		
XIV. System performance				
System performance was found to be acceptable.	/			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target compounds were detected in the field duplicates.		/		
XVII. Field blanks				
Field blanks were identified in this SDG.	/	/		
Target compounds were detected in the field blanks.		/		

All circled dates have exceeded the technical holding times.

Y/N/N/A Were all cooler temperatures within validation criteria?

Y N N/A Were air bubbles > 1/4 inch or headspace present in the vials?

[illegible]

TECHNICAL HOLDING TIME CRITERIA

Water unpreserved:

Aromatic within 7 days, non-aromatic within 14 days of sample collection.

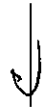
Water preserved:

Within 14 days of sample collection.

Soil:

Within 14 days of sample collection.

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 2
 Reviewer: JVG
 2nd Reviewer: 

METHOD: GC/MS VOA (EPA SW 846 Method 8260B-SIM)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is})/(A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A_x = Area of Compound

C_x = Concentration of compound

S = Standard deviation of the RRFs

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	11/1/10	1,4-Dioxane (1,4-D-d8)	1.3193	1.3359	1.3219	1.3219	1	1
	HP15648								

Cis/Cx	Ax	Ax
10/10	29359	21977

Conc	RRF
0.5	1.3291
2.0	1.3004
5.0	1.3359
10.0	1.3193
25.0	1.3248
X =	1.3219
S =	0.0135

LDC # 25750 Flb

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 2
Reviewer: JVG
2nd Reviewer: Z

METHOD: GC/MS VOA (EPA SW 846 Method 8260B-SIM)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (Ax)(Cis)/(Ais)(Cx)$ Ais = Area of Compound Ais = Area of associated internal standard
average RRF = sum of the RRFs/number of standards Cx = Concentration of compound Cis = Concentration of internal standard
 $\%RSD = 100 * (S/X)$ S = Standard deviation of the RRFs X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	11/7/10	1,4-Dioxane (1,4-D-d8)	1.3392	1.3392	1.3396	1.3396	2	2
	HP15648								

Cis/Cx	Ax	Ax
10/10	25596	19113

Conc	RRF
0.5	1.3082
2.0	1.3793
5.0	1.3539
10.0	1.3392
25.0	1.3175
X =	1.3396
S =	0.0285

LDC # 2575D #1b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: C

METHOD: GC/MS VOA (EPA SW 846 Method 8260B-SIM)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$ Where: Cx = Concentration of compound,
RRF = $(Ax)(Cis)/(Ais)(Cx)$ ave. RRF = initial calibration average RRF Ais = Area of associated internal standard
Ax = Area of compound RRF = continuing calibration RRF Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	CCV RRF	Reported RRF	Recalculated RRF	Reported % D	Recalculated %D
1	ed23c01	12/23/10	1,4-Dioxane (1,4-D-d8)	1.3396	1.3760	1.3760	3	3
	HP15648							
2	ed22c51	12/22/10	1,4-Dioxane (1,4-D-d8)	1.3219	1.3061	1.3061	1	1
	HP15648							

Compound	(IS)	Cis/Cx	Ax	Ais
CCV1	1,4-Dioxane (1,4-D-d8)	10/10	30530	22187
CCV2	1,4-Dioxane (1,4-D-d8)	10/10	22389	17142

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$

Where: SF = Surrogate Found

SS = Surrogate Spiked

Sample ID: #

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	10	9.963	100	100	0
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

LDC #: 25750 F-16

VALIDATION FINDINGS WORKSHEET

Page: 1 of 1

Reviewer: JVL

2nd Reviewer: Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$

Where: SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

$$\text{RPD} = \frac{|\text{MSC} - \text{MSD}| * 2}{(\text{MSC} + \text{MSD})}$$

MSC = Matrix spike concentration

MSDC = Matrix spike duplicate concentration

MS/MSD sample: 8/9

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)		Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	MS	MSD	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,4-dioxane	137	128	0		118	119	90	90	93	53	3	1
1,1-Dichloroethene												
Trichloroethene												
Benzene												
Toluene												
Chlorobenzene												

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Lab calc. 96 RPD base on 20X instead of Conc.

LDC #: 25750 Fib

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: 1 of 1

Reviewer: JVG

2nd reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y	N	N/A
Y	N	N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_s)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. _____, MD:

$$\text{Conc.} = \frac{(\quad)(\quad)(\quad)}{(\quad)(\quad)(\quad)}$$

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[illegible]

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 21, 2010

LDC Report Date: July 18, 2011

Matrix: Soil/Water

Parameters: Semivolatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE049

Sample Identification

DUP15-SA5B-QC-122110
EB07-SA5B-122110
SL-006-SA5B-SB-4.0-5.0
SL-006-SA5B-SB-5.0-6.0
SL-046-SA5B-SB-4.0-5.0
SL-046-SA5B-SB-9.0-10.0
SL-047-SA5B-SB-4.0-5.0
SL-159-SA5B-SS-0.0-0.5
SL-183-SA5B-SS-0.0-0.5
SL-219-SA5B-SS-0.0-0.5
SL-225-SA5B-SS-0.0-0.5
SL-226-SA5B-SS-0.0-0.5
SL-227-SA5B-SS-0.0-0.5
SL-046-SA5B-SB-4.0-5.0MS
SL-046-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 14 soil samples and one water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for all samples were reported at 6.4°C to 9.0°C upon receipt by the laboratory.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

Sample EB07-SA5B-122110 was identified as an equipment blank. No semivolatile was found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-046-SA5B-SB-4.0-5.0MS/MSD (SL-046-SA5B-SB-4.0-5.0)	Phenol	-	44 (58-126)	73 (≤30)	J (all detects) UJ (all non-detects)	A
	Bis(2-chloroethyl) ether	-	42 (60-116)	74 (≤30)		
	2-Chlorophenol	-	46 (73-121)	72 (≤30)		
	1,3-Dichlorobenzene	-	39 (63-109)	69 (≤30)		
	1,4-Dichlorobenzene	-	39 (70-100)	72 (≤30)		
	Benzyl alcohol	-	45 (67-115)	72 (≤30)		
	1,2-Dichlorobenzene	-	40 (66-108)	70 (≤30)		
	2-Methylphenol	-	46 (75-111)	72 (≤30)		
	Bis(2-chloroisopropyl) ether	-	42 (55-142)	74 (≤30)		
	N-Nitroso-di-n-propylamine	-	44 (60-116)	70 (≤30)		
	4-Methylphenol	-	43 (71-111)	70 (≤30)		
	Hexachloroethane	-	31 (57-109)	72 (≤30)		
	Nitrobenzene	-	45 (72-106)	70 (≤30)		
	Isophorone	-	46 (73-102)	68 (≤30)		
	2-Nitrophenol	-	44 (74-115)	70 (≤30)		
	2,4-Dimethylphenol	-	46 (78-110)	71 (≤30)		
	Bis(2-chloroethoxy)methane	-	46 (75-104)	67 (≤30)		
	2,4-Dichlorophenol	-	47 (78-117)	68 (≤30)		
	1,2,4-Trichlorobenzene	-	46 (72-115)	68 (≤30)		
	Hexachlorobutadiene	-	45 (62-120)	68 (≤30)		
	4-Chloro-3-methylphenol	-	46 (76-110)	67 (≤30)		
	2,4,6-Trichlorophenol	-	53 (77-115)	63 (≤30)		
	2,4,5-Trichlorophenol	-	51 (78-109)	64 (≤30)		
	2-Chloronaphthalene	-	47 (50-141)	51 (≤30)		
	2-Nitroaniline	-	52 (67-125)	65 (≤30)		
	2,6-Dinitrotoluene	-	47 (69-123)	68 (≤30)		
	3-Nitroaniline	-	48 (59-122)	65 (≤30)		
	4-Nitrophenol	-	43 (54-113)	66 (≤30)		
	Dibenzofuran	-	49 (71-112)	68 (≤30)		
	4-Chlorophenyl-phenyl ether	-	49 (80-109)	65 (≤30)		
	4-Nitroaniline	-	38 (52-112)	67 (≤30)		
	4,6-Dinitro-2-methylphenol	-	17 (24-116)	64 (≤30)		
	N-Nitrosodiphenylamine	-	52 (86-145)	68 (≤30)		
	4-Bromophenyl-phenyl ether	-	50 (67-129)	68 (≤30)		
	Hexachlorobenzene	-	51 (77-114)	69 (≤30)		
	Carbazole	-	51 (64-120)	64 (≤30)		
	1,2-Diphenylhydrazine	-	50 (71-129)	68 (≤30)		
	Benzidine	-	26 (35-141)	63 (≤30)		
	Bis(2-ethylhexyl)phthalate	-	51 (63-122)	66 (≤30)		
	3,5-Dimethylphenol	-	50 (70-130)	68 (≤30)		
	2,4-Dinitrotoluene	-	47 (73-113)	67 (≤30)		
SL-046-SA5B-SB-4.0-5.0MS/MSD (SL-046-SA5B-SB-4.0-5.0)	Aniline	-	-	78 (≤30)	J (all detects)	A
	Benzoic acid	-	-	60 (≤30)	J (all detects)	
	4-Chloroaniline	-	-	48 (≤30)	J (all detects)	
	Hexachlorocyclopentadiene	-	-	82 (≤30)	J (all detects)	
	Pentachlorophenol	-	-	82 (≤30)	J (all detects)	
	3,3'-Dichlorobenzidine	-	-	64 (≤30)	J (all detects)	

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-046-SA5B-SB-4.0-5.0MS/MSD (SL-046-SA5B-SB-4.0-5.0)	2,4-Dinitrophenol	-	0 (20-143)	200 (≤30)	J (all detects) R (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
356WNLCS/D (EB07-SA5B-122110 SBLKWN356)	Benzoic acid	-	-	76 (≤30)	J (all detects) UJ (all non-detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE049	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples DUP15-SA5B-QC-122110 and SL-046-SA5B-SB-4.0-5.0 were identified as field duplicates. No semivolatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	DUP15-SA5B-QC-122110	SL-046-SA5B-SB-4.0-5.0			
Bis(2-ethylhexyl)phthalate	24	29	19 (≤50)	-	-

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE049

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	SL-046-SA5B-SB-4.0-5.0	Phenol Bis(2-chloroethyl) ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl alcohol 1,2-Dichlorobenzene 2-Methylphenol Bis(2-chloroisopropyl) ether N-Nitroso-di-n-propylamine 4-Methylphenol Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol Bis(2-chloroethoxy)methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Hexachlorobutadiene 4-Chloro-3-methylphenol 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline 2,6-Dinitrotoluene 3-Nitroaniline 4-Nitrophenol Dibenzofuran 4-Chlorophenyl-phenyl ether 4-Nitroaniline 4,6-Dinitro-2-methylphenol N-Nitrosodiphenylamine 4-Bromophenyl-phenyl ether Hexachlorobenzene Carbazole 1,2-Diphenylhydrazine Benzidine Bis(2-ethylhexyl)phthalate 3,5-Dimethylphenol 3-Methylphenol 2,4-Dinitrotoluene	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE049	SL-046-SA5B-SB-4.0-5.0	Aniline Benzoic acid 4-Chloroaniline Hexachlorocyclopentadiene Pentachlorophenol 3,3'-Dichlorobenzidine	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD) (Q)
DE049	SL-046-SA5B-SB-4.0-5.0	2,4-Dinitrophenol	J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE049	EB07-SA5B-122110	Benzoic acid	J (all detects) UJ (all non-detects)	P	Laboratory control samples (RPD)(E)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	DUP15-SA5B-QC-122110 EB07-SA5B-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory

Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory

Semivolatiles - Field Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

LDC #: 25750F2a **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE049

Level IV

Laboratory: Lancaster Laboratories

Date: 7/05/11

Page: 1 of 1

Reviewer: JVB

2nd Reviewer: **METHOD:** GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	SW	Sampling dates: 12/21/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	2 RSD $\leq$ 30% <i>rv</i>
IV.	Continuing calibration/ICV	A	CV/ICV $\leq$ 25%
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	SW	LCS 1b
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 1.5
XVII.	Field blanks	1b	EB = 2

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil + Water

1	DUP15-SA5B-QC-122110 <i>W</i>	11	SL-225-SA5B-SS-0.0-0.5 <i>S</i>	21	SBULK I 363	31	
2	EB07-SA5B-122110 <i>W</i>	12	SL-226-SA5B-SS-0.0-0.5	22	SBULK W N 356	32	
3	SL-006-SA5B-SB-4.0-5.0 <i>S</i>	13	SL-227-SA5B-SS-0.0-0.5	23		33	
4	SL-006-SA5B-SB-5.0-6.0	14	SL-046-SA5B-SB-4.0-5.0MS	24		34	
5	SL-046-SA5B-SB-4.0-5.0 <i>D</i>	15	SL-046-SA5B-SB-4.0-5.0MSD	25		35	
6	SL-046-SA5B-SB-9.0-10.0	16		26		36	
7	SL-047-SA5B-SB-4.0-5.0	17		27		37	
8	SL-159-SA5B-SS-0.0-0.5	18		28		38	
9	SL-183-SA5B-SS-0.0-0.5	19		29		39	
10	SL-219-SA5B-SS-0.0-0.5 <i>✓</i>	20		30		40	

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.		/		
II. GC/MS instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Was a curve fit used for evaluation?	/			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	/			
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ?	/			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ?	/			
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	/			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			/	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			/	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		/		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☐	☒	☐	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☒	☐	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	☒	☐	☐	
Were retention times within + 30 seconds from the associated calibration standard?	☒	☐	☐	
XI. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	☒	☐	☐	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	☒	☐	☐	
Were chromatogram peaks verified and accounted for?	☒	☐	☐	
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	☒	☐	☐	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	☐	☐	☒	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?	☐	☐	☒	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	☐	☒	☐	
XIV. System performance				
System performance was found to be acceptable.	☒	☐	☐	
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒	☐	☐	
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	☒	☐	☐	
Target compounds were detected in the field duplicates.	☒	☐	☐	
XVII. Field blanks				
Field blanks were identified in this SDG.	☒	☐	☐	
Target compounds were detected in the field blanks.	☐	☒	☐	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

A. Phenol**	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol**	III. Benzo(a)pyrene**
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol**	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene**	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol*	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene**	T. 4-Chloroaniline	II. 4-Nitrophenol*	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene**	JJ. Dibenzofuran	YY. Fluoranthene**	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol**	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene*	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine*	Y. 2,4,6-Trichlorophenol**	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT. 1,2-Diphenylhydrazine
M. Isophorane	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)**	FFF. Di-n-octylphthalate**	UUU. 3,5-Dimethylphenol
N. 2-Nitrophenol**	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

Notes:* = System performance check compound (SPCC) for RRF. ** = Calibration check compound (CCC) for %RSD.

Reviewer: ML
2nd Reviewer: C

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

~~N/A~~ Was a MS/MSD analyzed every 20 samples of each matrix?

~~Y(N)/N/A~~ Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

[illegible]

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)	Compound		QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
A.	Phenol	26-90%	< 35%	12-110%	< 42%	GG	Acenaphthene	31-137%	< 19%	46-118%	< 31%
C.	2-Chlorophenol	25-102%	< 50%	27-123%	< 40%	II.	4-Nitrophenol	11-114%	< 50%	10-80%	< 50%
E.	1,4-Dichlorobenzene	28-104%	< 27%	36-97%	< 28%	KK.	2,4-Dinitrotoluene	28-89%	< 47%	24-96%	< 38%
J.	N-Nitroso-di-n-propylamine	41-126%	< 38%	41-116%	< 38%	TT.	Pentachlorophenol	17-109%	< 47%	9-103%	< 50%
R.	1,2,4-Trichlorobenzene	38-107%	< 23%	39-98%	< 28%	ZZ.	Pyrene	35-142%	< 36%	26-127%	< 31%
V.	4-Chloro-3-methylphenol	26-103%	< 33%	23-97%	< 42%						

SOIL GC/MS SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: LANCASTER LABS

Lab Code: LANCAS

UNSPIKED:ea0789.d
04645 6172107
AMT USED:30.0 g
FINAL VOL:1 ml

MATRIX SPIKE:ea0790.d
04645MS 6172108
AMT USED: 30.0 g
FINAL VOL: 1 ml

SPIKE DUPLICATE:ea0791.d
04645MSD 6172109
AMT USED: 30.0 g
FINAL VOL: 1 ml

INSTRUMENT: HP09572

DILUTION FACTOR: 1

BATCH: 10363SL1026

%MOISTURE: 8

EXTRACT SPIKE LEVEL: 1811.59

COMPOUND NAME	MS SPIKE	MSD SPIKE	US CONC UG/KG	MS CONC UG/KG	MSD CONC UG/KG	MS REC %	MSD REC %	Range LOWER-UPPER	INSPEC	RPD %	RPD MAX	INSPEC
N-Nitrosodimethylamine	1811.59	1811.59	ND	1356.28	777.06	75	43	47-116	NO	54	30	NO
AN Aniline	1811.59	1811.59	ND	1035.84	452.24	57	25	14-144 35-15	YES	78	30	NO
A Phenol	1811.59	1811.59	ND	1726.42	805.61	95	44	58-126	NO	73	30	NO
B bis(2-Chloroethyl)ether	1811.59	1811.59	ND	1652.39	767.62	91	42	60-116	NO	74	30	NO
C 2-Chlorophenol	1811.59	1811.59	ND	1773.66	830.18	98	46	73-121	NO	72	30	NO
D 1,3-Dichlorobenzene	1811.59	1811.59	ND	1456.71	706.83	80	39	63-109	NO	69	30	NO
E 1,4-Dichlorobenzene	1811.59	1811.59	ND	1512.06	699.20	83	39	53-113 70-100	NO	72	30	NO
GA Benzyl alcohol	1811.59	1811.59	ND	1730.35	819.66	96	45	55-123 67-115	NO	72	30	NO
F 1,2-Dichlorobenzene	1811.59	1811.59	ND	1510.83	731.27	83	40	66-108	NO	70	30	NO
G 2-Methylphenol	1811.59	1811.59	ND	1780.12	838.46	98	46	42-142 75-111	NO	72	30	NO
MM bis(2-Chloroisopropyl)ether	1811.59	1811.59	ND	1641.79	765.75	91	42	55-142	NO	74	30	NO
J N-Nitroso-di-n-propylamine	1811.59	1811.59	ND	1646.39	793.40	91	44	60-116	NO	70	30	NO
I 4-Methylphenol	1811.59	1811.59	ND	1611.80	775.11	89	43	55-126 71-111	NO	70	30	NO
K Hexachloroethane	1811.59	1811.59	ND	1199.87	554.72	66	31	57-109	NO	72	30	NO
L Nitrobenzene	1811.59	1811.59	ND	1676.59	817.30	93	45	51-114 72-106	NO	70	30	NO
M Isophorone	1811.59	1811.59	ND	1688.13	831.56	93	46	51-118 73-102	NO	68	30	NO
N 2-Nitrophenol	1811.59	1811.59	ND	1666.33	803.23	92	44	74-115	NO	70	30	NO
O 2,4-Dimethylphenol	1811.59	1811.59	ND	1764.99	833.55	97	46	56-130 78-110	NO	71	30	NO
P bis(2-Chloroethoxy)methane	1811.59	1811.59	ND	1671.92	827.99	92	46	54-117 75-104	NO	67	30	NO
PPP Benzoic acid	1811.59	1811.59	ND	701.08	383.68	39	21	10-173	YES	60	30	NO
Q 2,4-Dichlorophenol	1811.59	1811.59	ND	1742.90	860.36	96	47	78-117	NO	68	30	NO
R 1,2,4-Trichlorobenzene	1811.59	1811.59	ND	1703.14	831.60	94	46	72-115	NO	68	30	NO
Naphthalene	1811.59	1811.59	ND	1643.48	796.51	91	44	72-116	NO	70	30	NO
T 4-Chloroaniline	1811.59	1811.59	ND	882.63	541.81	49	30	23- 95	YES	48	30	NO
U Hexachlorobutadiene	1811.59	1811.59	ND	1651.47	815.42	91	45	62-120	NO	68	30	NO
V 4-Chloro-3-methylphenol	1811.59	1811.59	ND	1664.11	830.00	92	46	53-130 76-110	NO	67	30	NO
2-Methylnaphthalene	1811.59	1811.59	ND	1588.44	773.02	88	43	76-114	NO	69	30	NO
X 1-Methylnaphthalene	1811.59	1811.59	ND	1699.86	837.05	94	46	73-112	NO	68	30	NO
Y Hexachlorocyclopentadiene	3623.19	3623.19	ND	859.30	366.79	24	10	10-153	YES	82	30	NO
Z 2,4,6-Trichlorophenol	1811.59	1811.59	ND	1839.71	951.73	102	53	49-140 72-115	YES	63	30	NO
AA 2,4,5-Trichlorophenol	1811.59	1811.59	ND	1792.78	918.61	99	51	34-139 78-104	YES	64	30	NO
BB 2-Chloronaphthalene	1811.59	1811.59	ND	1428.11	846.15	79	47	50-141	NO	51	30	NO
2-Nitroaniline	1811.59	1811.59	ND	1851.10	940.63	102	52	67-125	NO	65	30	NO
Dimethylphthalate	1811.59	1811.59	ND	1736.09	894.72	96	49	64-118	NO	65	30	NO
EE 2,6-Dinitrotoluene	1811.59	1811.59	ND	1742.56	855.52	96	47	69-123	NO	68	30	NO
Acenaphthylene	1811.59	1811.59	ND	1827.61	899.89	101	50	49-126	YES	68	30	NO
FF 3-Nitroaniline	1811.59	1811.59	ND	1705.04	866.02	94	48	59-122	NO	65	30	NO
Acenaphthene	1811.59	1811.59	ND	1729.54	860.28	95	47	75-115	NO	68	30	NO
HH 2,4-Dinitrophenol	3623.19	3623.19	ND	774.06	ND	21	0	20-143	NO	20	76	NO
II 4-Nitrophenol	1811.59	1811.59	ND	1541.55	785.88	85	43	39-133 54-113	YES	66	30	NO
JJ Dibenzofuran	1811.59	1811.59	ND	1786.32	890.95	99	49	71-112	NO	68	30	NO
KK 2,4-Dinitrotoluene	1811.59	1811.59	ND	1703.04	853.78	94	47	57-114 73-113	NO	67	30	NO
Diethylphthalate	1811.59	1811.59	ND	1778.38	901.17	98	50	66-118	NO	65	30	NO
Fluorene	1811.59	1811.59	ND	1751.31	879.80	97	49	60-125	NO	66	30	NO
MM 4-Chlorophenyl-phenylether	1811.59	1811.59	ND	1743.82	888.87	96	49	64-119 80-109	NO	65	30	NO
OO 4-Nitroaniline	1811.59	1811.59	ND	1378.72	681.21	76	38	52-112	NO	67	30	NO
PP 4,6-Dinitro-2-methylphenol	1811.59	1811.59	ND	606.08	305.60	33	17	10-148 24-116	YES	64	30	NO
QA N-Nitrosodiphenylamine	1811.59	1811.59	ND	1896.68	939.02	105	52	86-145	NO	68	30	NO
RA 4,2-Diphenylhydrazine	1811.59	1811.59	ND	1850.18	906.89	102	50	71-129	NO	68	30	NO
RR 4-Bromophenyl-phenylether	1811.59	1811.59	ND	1831.23	901.59	101	50	67-129	NO	68	30	NO
SS Hexachlorobenzene	1811.59	1811.59	ND	1900.58	928.51	105	51	61-114 72-114	NO	69	30	NO
TT Pentachlorophenol	1811.59	1811.59	ND	1436.81	598.75	79	33	17-149	YES	82	30	NO
Phenanthrene	1811.59	1811.59	ND	1812.72	893.60	100	49	65-125	NO	68	30	NO
Anthracene	1811.59	1811.59	ND	1822.98	899.57	101	50	75-115	NO	68	30	NO
WW Carbazole	1811.59	1811.59	ND	1798.52	922.15	99	51	64-120	NO	64	30	NO
Di-n-butylphthalate	1811.59	1811.59	ND	1848.77	915.78	102	51	67-123	NO	67	30	NO
TTT 1,2-Diphenylhydrazine								50 71-129		68 30		

COMMENTS:

* Also found 3-Methylphenol

SOIL GC/MS SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: LANCASTER LABS

Lab Code: LANCAS

UNSPIKED:ea0789.d
04645 6172107
AMT USED:30.0 g
FINAL VOL:1 ml

MATRIX SPIKE:ea0790.d
04645MS 6172108
AMT USED: 30.0 g
FINAL VOL: 1 ml

SPIKE DUPLICATE:ea0791.d
04645MSD 6172109
AMT USED: 30.0 g
FINAL VOL: 1 ml

INSTRUMENT: HP09572

DILUTION FACTOR: 1

BATCH: 10363SLI026

%MOISTURE: 8

EXTRACT SPIKE LEVEL: 1811.59

COMPOUND NAME	MS SPIKE	MSD SPIKE	US CONC UG/KG	MS CONC UG/KG	MSD CONC UG/KG	MS REC %	MSD REC %	Range LOWER-UPPER	INSPEC	RPD %	RPD MAX	INSPEC
Fluoranthene	1811.59	1811.59	ND	1839.51	910.53	102	50	59-122	NO	68	30	NO
SSS Benzidine	9057.97	9057.97	ND	4554.86	2371.12	50	26	35-141	NO	63	30	NO
Pyrene	1811.59	1811.59	ND	1906.06	961.16	105	53	51-151	YES	66	30	NO
Butylbenzylphthalate	1811.59	1811.59	ND	1905.69	979.26	105	54	73-134	NO	64	30	NO
Benzo(a)anthracene	1811.59	1811.59	ND	1844.81	932.15	102	51	65-122	NO	67	30	NO
BBB 3,3'-Dichlorobenzidine	1811.59	1811.59	ND	1604.44	827.26	89	46	25-123	YES	64	30	NO
Chrysene	1811.59	1811.59	ND	1826.81	923.99	101	51	62-128	NO	66	30	NO
EEE bis(2-Ethylhexyl)phthalate	1811.59	1811.59	29.05	1857.36	948.41	101	51	63-122	NO	66	30	NO
Di-n-octylphthalate	1811.59	1811.59	ND	1748.96	865.31	97	48	56-126	NO	68	30	NO
Benzo(b)fluoranthene	1811.59	1811.59	ND	1698.21	854.59	94	47	59-125	NO	67	30	NO
Benzo(k)fluoranthene	1811.59	1811.59	ND	1568.38	794.72	87	44	56-132	NO	66	30	NO
Benzo(a)pyrene	1811.59	1811.59	ND	1627.73	819.00	90	45	57-126	NO	67	30	NO
Indeno(1,2,3-cd)pyrene	1811.59	1811.59	ND	1710.80	831.47	94	46	61-126	NO	68	30	NO
Dibenz(a,h)anthracene	1811.59	1811.59	ND	1733.38	840.67	96	46	65-125	NO	70	30	NO
Benzo(g,h,i)perylene	1811.59	1811.59	ND	1769.48	852.81	98	47	59-127	NO	70	30	NO
uuu 3,5-Dimethylphenol	1811.59	1811.59	ND	1842.20	902.22	102	50	70-130	NO	68	30	NO

87849 1127

COMMENTS:

VALIDATION FINDINGS WORKSHEET

Laboratory Control Samples (LCS)

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a LCS required?

Were the LCS/LCSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

[illegible]

VALIDATION FINDINGS WORKSHEET
Field DuplicatesPage: 1 of 1
Reviewer: JVG
2nd Reviewer: C**METHOD:** GC MS SVOA (EPA SW 846 Method 8270C)Y N NA

Were field duplicate pairs identified in this SDG?

Y N NA

Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ug/kg)		(≤50)	Qualifications
	1	5	RPD	(Parent only)
Bis(2-ethylhexyl) phthalate	24	29	19	

LDC #: 25750 F2-a

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [Signature]

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A_x = Area of Compound

C_x = Concentration of compound,

S= Standard deviation of the RRFs,

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 40 std)	Recalculated RRF (RRF 40 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	01/18/11	Phenol (IS1)	2.617	2.617	2.530	2.531	3	3
			2,4-Dichlorophenol (IS2)	0.328	0.328	0.320	0.320	5	5
	HP09572		2,4,5-Trichlorophenol (IS3)	0.376	0.376	0.375	0.375	4	4
			Pentachlorophenol (IS4)	0.101	0.101	0.096	0.096	14	14
			Bis(2-ethoxy)phthalate (IS5)	0.803	0.803	0.786	0.786	3	3
			Benzo(g,h,i)perylene (IS6)	1.055	1.055	1.020	1.020	4	4

Conc IS/Cpd	Area cpd	Area IS
40/50	651724	199241
40/50	345588	843345
40/50	268172	571196
40/50	119413	945728
40/50	966904	963381
40/50	925048	701556

Conc	Phenol	2,4-DCP	2,4,5-TCP	PCP	Bis(2-eh)phtha	Benzo(g,h,i)per
5	2.416	0.295	0.371	0.077	0.750	0.980
15	2.533	0.312	0.351	0.087	0.756	0.972
30	2.511	0.320	0.382	0.093	0.795	1.016
50	2.617	0.328	0.376	0.101	0.803	1.055
80	2.550	0.339	0.389	0.109	0.806	1.067
120	2.556	0.327	0.382	0.111	0.805	1.032
X =	2.531	0.320	0.375	0.096	0.786	1.020
S =	0.066	0.015	0.013	0.013	0.026	0.039

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750 Fza

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 7 of 2
Reviewer: JVG
2nd Reviewer: E

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A_x = Area of Compound

C_x = Concentration of compound,

S= Standard deviation of the RRFs,

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 40 std)	Recalculated RRF (RRF 40 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	01/14/11	Phenol	2.516	2.763	2.509	2.509	4	4
			2,4-Dichlorophenol	0.326	0.359	0.315	0.316	4	4
	HP09572		2,4,5-Trichlorophenol	0.388	0.428	0.373	0.373	7	7
			Hexachlorobenzene	0.181	0.113	0.178	0.178	2	2
			Benzidine	0.697	0.763	0.653	0.653	13	13

Conc IS/Cpd	Area cpd	Area IS
40/50	651724	188721
40/50	345588	770757
40/50	268172	501253
40/50	119413	847876
40/50	2563483	895845

Conc	Phenol	2,4-DCP	2,4,5-TCP	Hexachlorobenz	Benzidine
5	2.333	0.291	0.332	0.171	0.504
15	2.434	0.306	0.354	0.175	0.610
30	2.556	0.324	0.386	0.179	0.677
50	2.516	0.326	0.388	0.181	0.697
80	2.650	0.325	0.392	0.182	0.720
120	2.566	0.321	0.386	0.181	0.707
X =	2.509	0.316	0.373	0.178	0.653
S =	0.111	0.014	0.024	0.004	0.082

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC # 25150 F2a

VALIDATION FINDINGS WORKSHEET Continuing Calibration Calculation Verification

METHOD: GC/MS SVOA (EPA SW 846 Method 8270D)

Page: 1 of 2
Reviewer: JVG
2nd Reviewer: A

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 \times (\text{ave. RRF} - \text{RRF}_{\text{ave}}) / \text{RRF}_{\text{ave}}$$

$$\text{RRF} = (\text{Ax}) / (\text{Cis}) / (\text{Ais}) / (\text{Cx})$$

ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

Ax = Area of compound,

Cx = Concentration of compound,

Ais = Area of associated internal standard

Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CCV)	Recalculated RRF (CCV)	Reported % D	Recalculated % D
1	ea0881	01/20/11	Phenol (IS1)	2.530	2.753	2.753	9	9
			2,4-Dichlorophenol (IS2)	0.320	0.332	0.332	4	4
	HP09572		2,4,5-Trichlorophenol (IS3)	0.375	0.386	0.386	3	3
			Pentachlorophenol (IS4)	0.096	0.091	0.091	5	5
			Bis(2-ethoxy)phthalate (IS5)	0.786	0.782	0.782	0.5	0.5
			Benzo(g,h,i)perylene (IS6)	1.020	1.078	1.078	6	6
1	ea0941	01/20/11	Phenol (IS1)	2.530	2.683	2.683	6	6
			2,4-Dichlorophenol (IS2)	0.320	0.326	0.326	2	2
	HP09572		2,4,5-Trichlorophenol (IS3)	0.375	0.391	0.391	4	4
			Pentachlorophenol (IS4)	0.096	0.081	0.109	16	13
			Bis(2-ethoxy)phthalate (IS5)	0.786	0.748	0.748	5	5
			Benzo(g,h,i)perylene (IS6)	1.020	1.089	1.089	7	7

CCV1			CCV2		
Compound (IS)	Cis/Cx	Ax	Ais	Ax	Ais
Phenol (IS1)	40/50; 50/30	617458	179448	324725	161389
2,4-Dichlorophenol (IS2)	40/50; 50/30	330292	795177	170693	697355
2,4,5-Trichlorophenol (IS3)	40/50; 50/30	269489	559225	133734	455775
Pentachlorophenol (IS4)	40/50; 50/30	108094	948823	63136	775808
Bis(2-ethoxy)phthalate (IS5)	40/50; 50/30	943899	965550	457495	815843
Benzo(g,h,i)perylene (IS6)	40/50; 50/30	1007530	747637	531534	651018

LDC # 25750 F2a

VALIDATION FINDINGS WORKSHEET Continuing Calibration Calculation Verification

METHOD: GC/MS SVOA (EPA SW 846 Method 8270.)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 \cdot (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (\text{Ax})(\text{Cis}) / (\text{Ais})(\text{Cx})$$

ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

Ax = Area of compound,

Cx = Concentration of compound,

Ais = Area of associated internal standard

Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CCV)	Recalculated RRF (CCV)	Reported % D	Recalculated %D
1		01/15/11	Phenol (IS1)	2.509	See ICAL			
			2,4-Dichlorophenol (IS2)	0.315				
	HP09572		2,4,5-Trichlorophenol (IS3)	0.373				
			Pentachlorophenol (IS4)	0.178				
			Benzidine (IS5)	0.65				

CCV1

Compound (IS)	Cis/Cx	Ax	Ais
Phenol (IS1)	40/50		
2,4-Dichlorophenol (IS2)	40/50		
2,4,5-Trichlorophenol (IS3)	40/50		
Pentachlorophenol (IS4)	40/50		
Benzidine (IS5)	40/150		

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$ Where: SF = Surrogate Found
SS = Surrogate SpikedSample ID: # 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	150	84.7	85	85	0
2-Fluorobiphenyl	↓	88.6	89	89	↓
Terphenyl-d14	↓	81.6	82	82	↓
Phenol-d5	200	172.0	86	86	↓
2-Fluorophenol	↓	173.7	87	87	↓
2,4,6-Tribromophenol	↓	165.7	83	83	↓
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC - SC) / SA$ Where: SSC = Spiked sample concentration SC = Sample concentration
 RPD = $|MSC - MSC1| * 2 / (MSC + MSC1)$ SA = Spike added MSDC = Matrix spike duplicate concentration
 MS/MSD samples: 14 / 15

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Phenol	1811.59	1811.59	0	1726.42	804.61	95	95	44	44	73	73
N-Nitroso-di-n-propylamine				1646.33	793.40	91	91	44	44	70	70
4-Chloro-3-methylphenol				1664.11	830.20	92	92	46	46	67	67
Acenaphthene											
Pentachlorophenol				1436.81	598.75	79	79	33	33	82	82
Pyrene											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Sample Calculation Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Y	N	N/A
Y	N	N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_u)(L_u)(V_u)(DF)(2.0)}{(A_m)(RRF)(V_m)(V_i)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_1 = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. 10, Benzo (g,h,i) perylene

$$\text{Conc.} = \frac{(49309) \times (40.00) \times (1 \text{ ml}) \times 5 \times (100)}{(74781) \times (1.020) \times 30.09 \times 0.776 \times ()}$$

$$= 5558,4$$

$\approx 5600 \text{ ug kg}$

[illegible]

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory
Collection Date: December 21, 2010
LDC Report Date: July 8, 2011
Matrix: Soil/Water
Parameters: Semivolatiles
Validation Level: Level IV
Laboratory: Lancaster laboratories
Sample Delivery Group (SDG): DE049

Sample Identification

DUP15-SA5B-QC-122110
EB07-SA5B-122110
SL-006-SA5B-SB-4.0-5.0
SL-006-SA5B-SB-5.0-6.0
SL-046-SA5B-SB-4.0-5.0
SL-046-SA5B-SB-9.0-10.0
SL-047-SA5B-SB-4.0-5.0
SL-159-SA5B-SS-0.0-0.5
SL-183-SA5B-SS-0.0-0.5
SL-219-SA5B-SS-0.0-0.5
SL-225-SA5B-SS-0.0-0.5
SL-226-SA5B-SS-0.0-0.5
SL-227-SA5B-SS-0.0-0.5
SL-046-SA5B-SB-4.0-5.0MS
SL-046-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 14 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C using Selected Ion Monitoring (SIM) for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for all samples were reported at 6.4°C to 9.0°C upon receipt by the laboratory.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
SBLKWM3566	12/23/10	Di-n-butylphthalate Butylbenzylphthalate Bis(2-ethylhexyl)phthalate	0.15 ug/L 0.10 ug/L 0.11 ug/L	EB07-SA5B-122110

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
EB07-SA5B-122110	Di-n-butylphthalate Butylbenzylphthalate Bis(2-ethylhexyl)phthalate	0.46 ug/L 0.12 ug/L 0.28 ug/L	1.0U ug/L 1.0U ug/L 1.0U ug/L

Sample EB07-SA5B-122110 was identified as an equipment blank. No semivolatile contaminants were found in this blank with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB07-SA5B-122110	12/21/10	Butylbenzylphthalate Di-n-butylphthalate Diethylphthalate Bis(2-ethylhexyl)phthalate Naphthalene Di-n-octylphthalate	0.12 ug/L 0.46 ug/L 0.11 ug/L 0.28 ug/L 0.027 ug/L 0.12 ug/L	All soil samples in SDG DE049

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
363LLCS (All soil samples in SDG DE049)	Fluoranthene	76 (78-120)	-	-	J (all detects) UJ (all non-detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Affected Compound	Flag	A or P
SL-225-SA5B-SS-0.0-0.5	Benzo(b)fluoranthene Benzo(k)fluoranthene	Due to lack of resolution between these compounds in the samples, the laboratory performed the quantitation using the total peak area.	Benzo(b)fluoranthene	J (all detects) UJ (all non-detects)	P

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE049	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

All tentatively identified compounds were within validation criteria.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples DUP15-SA5B-QC-122110 and SL-046-SA5B-SB-4.0-5.0 were identified as field duplicates. No semivolatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	DUP15-SA5B-QC-122110	SL-046-SA5B-SB-4.0-5.0			
Benzo(a)anthracene	1.5	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Benzo(a)pyrene	1.4	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Benzo(b)fluoranthene	2.2	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Benzo(g,h,i)perylene	1.2	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Benzo(k)fluoranthene	0.96	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Chrysene	1.2	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Indeno(1,2,3-cd)pyrene	0.91	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Naphthalene	1.4	2.0	35 (≤50)	-	-

Santa Susana Field Laboratory
Semivolatiles- Data Qualification Summary - SDG DE049

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	Fluoranthene	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE049	SL-225-SA5B-SS-0.0-0.5	Benzo(b)fluoranthene	J (all detects) UJ (all non-detects)	P	Compound quantitation and CRQLs (peak resolution) (*XII)
DE049	DUP15-SA5B-QC-122110 EB07-SA5B-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	All TCL compounds	J (all detects)	A	Compound quantitation and CRQLs (Z)
DE049	DUP15-SA5B-QC-122110 SL-046-SA5B-SB-4.0-5.0	Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Indeno(1,2,3-cd)pyrene	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Semivolatiles- Laboratory Blank Data Qualification Summary - SDG DE049

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE049	EB07-SA5B-122110	Di-n-butylphthalate Butylbenzylphthalate Bis(2-ethylhexyl)phthalate	1.0U ug/L 1.0U ug/L 1.0U ug/L	A	B

Santa Susana Field Laboratory
Semivolatiles- Field Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

LDC #: 25750F2b **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE049

Level IV

Laboratory: Lancaster Laboratories

Date: 7/05/10

Page: 1 of 1

Reviewer: JVG

2nd Reviewer:

METHOD: GC/MS ^{Semivolatiles} Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	SW	Sampling dates: 12/31/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	7. RSD $\leq$ 30% $\checkmark$
IV.	Continuing calibration/ICV	A	CV/ICV $\leq$ 25%
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	SW	LCS 1b
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	SW	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 1, 5
XVII.	Field blanks	SW	EB = 2

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil + water

1	DUP15-SA5B-QC-122110	11	SL-225-SA5B-SS-0.0-0.5	21	SBLK NM 3566	31	
2	EB07-SA5B-122110	12	SL-226-SA5B-SS-0.0-0.5	22	SBLK LL 3639	32	
3	SL-006-SA5B-SB-4.0-5.0	13	SL-227-SA5B-SS-0.0-0.5	23		33	
4	SL-006-SA5B-SB-5.0-6.0	14	SL-046-SA5B-SB-4.0-5.0MS	24		34	
5	SL-046-SA5B-SB-4.0-5.0	15	SL-046-SA5B-SB-4.0-5.0MSD	25		35	
6	SL-046-SA5B-SB-9.0-10.0	16		26		36	
7	SL-047-SA5B-SB-4.0-5.0	17		27		37	
8	SL-159-SA5B-SS-0.0-0.5	18		28		38	
9	SL-183-SA5B-SS-0.0-0.5	19		29		39	
10	SL-219-SA5B-SS-0.0-0.5	20		30		40	

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.		/		
II. GC/MS instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Was a curve fit used for evaluation?	/			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	/			
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ?	/			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ?	/			
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/			
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	/			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			/	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			/	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		/		
Were the performance evaluation (PE) samples within the acceptance limits?			/	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	/			
Were retention times within + 30 seconds from the associated calibration standard?	/			
XI. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	/			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	/			
Were chromatogram peaks verified and accounted for?	/			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	/			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			/	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?			/	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?		/		
XIV. System performance				
System performance was found to be acceptable.	/			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target compounds were detected in the field duplicates.	/			
XVII. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.	/			

VALIDATION FINDINGS WORKSHEET

Technical Holding Times

All circled dates have exceeded the technical holding times.

Y N N/A Were all cooler temperatures within validation criteria?

[illegible]

TECHNICAL HOLDING TIME CRITERIA

Water: Extracted within 7 days, analyzed within 40 days.
Soil: Extracted within 14 days, analyzed within 40 days.

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

A. Phenol**	P. Bis(2-chloroethoxy)methane	EE. 2,5-Dinitrotoluene	TT. Pentachlorophenol**	III. Benzo(a)pyrene**
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol**	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene**	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol*	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene**	T. 4-Chloroaniline	II. 4-Nitrophenol*	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene**	JJ. Dibenzofuran	YY. Fluoranthene**	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol**	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene*	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine*	Y. 2,4,6-Trichlorophenol**	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT.
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)**	FFF. Di-n-octylphthalate**	UUU.
N. 2-Nitrophenol**	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenyl ether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

Notes: * = System performance check compound (SPCC) for RRF; ** = Calibration check compound (CCC) for %RSD.

LDC #: 25750 F26

VALIDATION FINDINGS WORKSHEET

Field Blanks

Page: 1 of 1
Reviewer: ML
2nd Reviewer: C

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y/N N/A Were field blanks identified in this SDG?

Y/N N/A Were target compounds detected in the field blanks?

Blank units: ug/L Associated sample units: ug/kgSampling date: 12/21/10Field blank type: (circle one) Field Blank / Rinsate / Other: FB

Associated Samples:

All Soils

Code: F

Compound	Blank ID	Sample Identification									
		1	4	5	6	7	8	9	10	11	
AAA	0.12								(16)	(14)	
XX	0.46								(28)		
LL	0.11										
EEE	0.28										
S	0.027	(1.4)	(1.2)	(2.0)	(1.3)	(1.4)	(2.6)	(8.3)	(270)	(60)	
FFF	0.12								(270)	(40)	

Blank units: _____ Associated sample units: _____

Sampling date: _____

Field blank type: (circle one) Field Blank / Rinsate / Other: Same as above

Associated Samples:

Compound	Blank ID	Sample Identification									
		2	1✓	13							
AAA	0.12										
XX	0.46										
LL	0.11										
EEE	0.28		12								
S	0.027		3.1	2.8							
FFF	0.12										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:

Common contaminants such as the phthalates and TICs noted above that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

VALIDATION FINDINGS WORKSHEET

Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: JVL
2nd Reviewer:

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a LCS required?

Were the LCS/LCSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

[illegible]

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

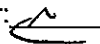
(Y)	N	N/A	Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?
-----	---	-----	---

	✓	N	N/A
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?			

[illegible]

Comments: See sample calculation verification worksheet for recalculations

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: JVG
 2nd Reviewer: 

METHOD: GC MS SVOA (EPA SW 846 Method 8270C-SIM)

Y/N NA

Were field duplicate pairs identified in this SDG?

Y/N NA

Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ug/kg)		(≤50) RPD	Qualifications (Parent only)
	1	5		
Benzo(a)anthracene	1.5	1.8U	200	J/UJ/A (FD)
Benzo(a)pyrene	1.4	1.8U	200	J/UJ/A (FD)
Benzo(b)fluoranthene	2.2	1.8U	200	J/UJ/A (FD)
Benzo(g,h,i)perylene	1.2	1.8U	200	J/UJ/A (FD)
Benzo(k)fluoranthene	0.96	1.8U	200	J/UJ/A (FD)
Chrysene	1.2	1.8U	200	J/UJ/A (FD)
Indeno(1,2,3-cd)pyrene	0.91	1.8U	200	J/UJ/A (FD)
Naphthalene	1.4	2.0	35	

LDC #: 25750 F25

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 2
Reviewer: JVG
2nd Reviewer: CA

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A_x = Area of Compound

C_x = Concentration of compound,

S= Standard deviation of the RRFs,

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 1.0 std)	Recalculated RRF (RRF 1.0 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	01/06/11	NDMA	1.073	1.073	1.024	1.024	11	11
			Naphthalene (IS2)	1.159	1.159	1.176	1.176	6	6
	HP07166		Diethylphthalate (IS3)	0.896	0.896	0.929	0.929	12	12
			Phenanthrene (IS4)	1.224	1.224	1.223	1.223	6	6
			Chrysene (IS5)	1.043	1.043	1.081	1.081	6	6
			Benzo(a)pyrene (IS6)	1.154	1.154	1.159	1.158	10	10

Cis/Cx	Ax	Ais
1/1	90626	84443
1/1	49849	430504
1/1	257014	266861
1/1	440965	360200
1/1	361530	346716
1/1	283162	245269

Conc	NDMA	Naphthalene	Diethylphthalate	Phenanthrene	Chrysene	benzo(a)py
0.05	0.908	1.177	0.753	1.201	1.083	0.987
0.20	1.089	1.314	1.009	1.344	1.210	1.234
0.5	0.855	1.116	0.863	1.135	1.018	1.063
1	1.073	1.159	0.896	1.224	1.043	1.154
5	1.103	1.161	1.044	1.192	1.058	1.245
10	1.117	1.128	1.010	1.242	1.073	1.267
X =	1.0242	1.176	0.929	1.223	1.081	1.158
S =	0.113	0.071	0.112	0.070	0.067	0.113

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750 Feb

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 2 of 2
Reviewer: JVG
2nd Reviewer: [Signature]

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is})/(A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A_x = Area of Compound

C_x = Concentration of compound,

S= Standard deviation of the RRFs,

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 1.0 std)	Recalculated RRF (RRF 1.0 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	01/11/11	NDMA	0.823	0.823	0.869	0.869	8	8
			Naphthalene (IS2)	0.984	0.984	1.085	1.085	10	10
	HP-10976		Diethylphthalate (IS3)	1.207	1.207	1.252	1.252	8	8
			Phenanthrene (IS4)	1.109	1.109	1.149	1.149	8	8
			Chrysene (IS5)	1.109	1.109	1.175	1.175	8	8
			Benzo(a)pyrene (IS6)	1.087	1.087	1.128	1.129	9	9

Cis/Cx	Ax	Ais
1/1	115186	139998
1/1	549154	557930
1/1	373823	309755
1/1	632240	570204
1/1	590696	532821
1/1	545707	502153

Conc	NDMA	Naphthalene	Diethylphthalate	Phenanthrene	Chrysene	benzo(a)py
0.05	0.871	1.037	1.140	1.090	1.136	1.001
0.2	0.973	1.296	1.426	1.322	1.368	1.265
0.5	0.786	1.022	1.188	1.086	1.125	1.072
1	0.823	0.984	1.207	1.109	1.109	1.087
5	0.925	1.063	1.256	1.127	1.140	1.123
10	0.838	1.108	1.297	1.162	1.174	1.223
X =	0.8693	1.085	1.252	1.149	1.175	1.129
S =	0.069	0.111	0.101	0.089	0.097	0.099

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET Continuing Calibration Calculation Verification

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 \cdot (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (\text{Ax})(\text{Cis}) / (\text{Ais})(\text{Cx})$$

ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

Ax = Area of compound,

Cx = Concentration of compound,

Ais = Area of associated internal standard

Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CCV)	Recalculated RRF (CCV)	Reported % D	Recalculated %D
1	la0391a	01/12/11	NDMA (IS1)	0.869	0.944	0.944	9	9
			Naphthalene (IS2)	1.085	1.018	1.018	6	6
	HP10976		Diethylphthalate (IS3)	1.252	1.391	1.391	11	11
			Phenanthrene (IS4)	1.149	1.066	1.066	7	7
			Chrysene (IS5)	1.175	1.117	1.117	5	5
			Benzo(a)pyrene (IS6)	1.128	1.029	1.029	9	9
2	la0421	01/13/11	NDMA (IS1)	0.869	0.940	0.940	8	8
			Naphthalene (IS2)	1.085	1.089	1.089	0	0
	HP10976		Diethylphthalate (IS3)	1.252	1.242	1.242	1	1
			Phenanthrene (IS4)	1.149	1.081	1.081	6	6
			Chrysene (IS5)	1.175	1.153	1.153	2	2
			Benzo(a)pyrene (IS6)	1.128	1.181	1.181	5	5

CCV1		CV2	CCV1		CCV2	
Cis/Cx	Cis/Cx	Compound (IS)	Ax	Ais	Ax	Ais
1/0.5	1/1	NDMA (IS1)	58469	123835	110666	117763
1/0.5	1/1	Naphthalene (IS2)	265804	522343	530431	486952
1/0.5	1/1	Diethylphthalate (IS3)	233500	335658	384767	309731
1/0.5	1/1	Phenanthrene (IS4)	285995	536522	547440	506397
1/0.5	1/1	Chrysene (IS5)	276399	494751	544988	472856
1/0.5	1/1	Benzo(a)pyrene (IS6)	244143	474500	492683	417326

VALIDATION FINDINGS WORKSHEET Continuing Calibration Calculation Verification

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (\text{Ax})(\text{Cis}) / (\text{Ais})(\text{Cx})$$

ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

Ax = Area of compound,

Cx = Concentration of compound,

Ais = Area of associated internal standard

Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CCV)	Recalculated RRF (CCV)	Reported % D	Recalculated %D
1	fa0081	01/06/11	NDMA (IS1)	1.024	1.164	1.164	14	14
			Naphthalene (IS2)	1.176	1.154	1.154	2	2
	HP07166		Diethylphthalate (IS3)	0.929	0.922	0.922	1	1
			Phenanthrene (IS4)	1.223	1.197	1.197	2	2
			Chrysene (IS5)	1.081	1.065	1.065	1	1
			Benzo(a)pyrene (IS6)	1.159	1.160	1.160	0	0

CCV1

Cis/Cx	Compound (IS)	Ax	Ais
1/1	NDMA (IS1)	101472	87174
1/1	Naphthalene (IS2)	509823	441641
1/1	Diethylphthalate (IS3)	265890	288391
1/1	Phenanthrene (IS4)	442403	369530
1/1	Chrysene (IS5)	377482	354442
1/1	Benzo(a)pyrene (IS6)	290184	250167

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$ Where: SF = Surrogate Found
SS = Surrogate SpikedSample ID: # 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	1.00	0.937	93	93	0
2-Fluorobiphenyl	↓	0.911	91	91	↓
Terphenyl-d14	↓	0.905	90	90	↓
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 * (\text{SC/SA})$$

Where: SSC = Spike concentration
SA = Spike added

$$RPD = |LCSC - LCSDC| * 2 / (LCSC + LCSDC)$$

LCSC = Laboratory control sample concentration

LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: 356 W M LCS /b

[illegible]

Comments: Refer to Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750 F26

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: 1 of 1

Reviewer: *DL*

2nd reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_v)(I_v)(V_i)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_1 = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #1, S

$$\text{Conc.} = \frac{(22675)(1.00)(1\text{ ml})}{(536972)(1.085)(30\text{ g})(0.913)}$$

$$= 1.42\text{ }\mu\text{g/kg}$$

[illegible]

(14)

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 21, 2010

LDC Report Date: July 11, 2011

Matrix: Soil/Water

Parameters: N-Nitrosodimethylamine

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE049

Sample Identification

EB07-SA5B-122110
SL-006-SA5B-SB-4.0-5.0
SL-006-SA5B-SB-5.0-6.0
SL-183-SA5B-SS-0.0-0.5

Introduction

This data review covers 3 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1625C for N-Nitrosodimethylamine.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for all samples were reported at 6.4°C to 9.0°C upon receipt by the laboratory.

II. GC/MS Instrument Performance Check

Instrument performance check is not required for by this method.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for N-Nitrosodimethylamine.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for N-Nitrosodimethylamine.

The percent difference (%D) of the second source calibration standard were less than or equal to 30.0% for N-Nitrosodimethylamine.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No N-nitrosodimethylamine was found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
SBLKA362	12/28/10	N-Nitrosodimethylamine	1.95 ng/L	EB07-SA5B-122110

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
EB07-SA5B-122110	N-Nitrosodimethylamine	2.83 ng/L	2.83U ng/L

Sample EB07-SA5B-122110 was identified as an equipment blank. No N-nitrosodimethylamine was found in this blank with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB07-SA5B-122110	12/21/10	N-Nitrosodimethylamine	2.83 ng/L	All soil samples in SDG DE049

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X for contaminants) than the concentrations found in the associated field blanks.

VI. Surrogate Spikes

Surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag	A or P
EB07-SA5B-122110	N-Nitrosodimethylamine-d6	172 (50-150)	All TCL compounds	J (all detects)	P

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within QC limits. Since there were no associated samples, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE049	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory**N-Nitrosodimethylamine - Data Qualification Summary - SDG DE049**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	EB07-SA5B-122110	All TCL compounds	J (all detects)	P	Surrogate spikes (%R) (S)
DE049	EB07-SA5B-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-183-SA5B-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory**N-Nitrosodimethylamine - Laboratory Blank Data Qualification Summary - SDG DE049**

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DE049	EB07-SA5B-122110	N-Nitrosodimethylamine	2.83U ng/L	A	B

Santa Susana Field Laboratory**N-Nitrosodimethylamine - Field Blank Data Qualification Summary - SDG DE049**

No Sample Data Qualified in this SDG

LDC #: 25750F2c **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE049

Level IV

Laboratory: Lancaster Laboratories

Date: 7/28/11

Page: 1 of 1

Reviewer: SW2nd Reviewer: SW**METHOD:** GC/MS N-Nitrosodimethylamine (EPA Method 1625C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	SW	Sampling dates: 12/21/10
II.	GC/MS Instrument performance check	N	(Not req'd.)
III.	Initial calibration	A	% RSD $\leq 30\%$
IV.	Continuing calibration/ICV	A	CV $\leq 20\%$ ICV $\leq 30\%$
V.	Blanks	SW	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	SW	No associated sample, No qual
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	SW	EB = 1

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil + Water

1	EB07-SA5B-122110	N	11	SBK WA 362	21		31	
2	SL-006-SA5B-SB-4.0-5.0	S	12	SBK LG 363	22		32	
3	SL-006-SA5B-SB-5.0-6.0		13		23		33	
4	SL-183-SA5B-SS-0.0-0.5	✓	14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.		/		
II. GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?			/	
Were all samples analyzed within the 12 hour clock criteria?			/	
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Was a curve fit used for evaluation?		/		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?			/	
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) ≥ 0.05 ?	/			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ?	/			
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/			
VI. Surrogate spikes				
Were all surrogate %R within QC limits?			/	
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			/	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			/	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		/		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX: Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		/		
Were the performance evaluation (PE) samples within the acceptance limits?			/	
X: Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	/			
Were retention times within + 30 seconds from the associated calibration standard?	/			
XI: Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	/			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	/			
Were chromatogram peaks verified and accounted for?	/			
XII: Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	/			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII: Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			/	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?			/	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?		/		
XIV: System performance				
System performance was found to be acceptable.	/			
XV: Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XVI: Field duplicates				
Field duplicate pairs were identified in this SDG.		/		
Target compounds were detected in the field duplicates.			/	
XVII: Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.	/			

SUR.2S.wpd

LDC # 25752 F2C

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [Signature]

METHOD: GC/MS NDMA (EPA Method 1625C)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (Ax)(Cis)/(Ais)(Cx)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

Ax = Area of Compound

Cx = Concentration of compound

S = Standard deviation of the RRFs

Ais = Area of associated internal standard

Cis = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL TE16311	1/19/2011	NDMA (NDMA-d6)	1.0230	1.0233	1.0940	1.0940	11	11

Cis/Cx	Ax	Ax
25/25	180024	175926

Conc	RRF
1.0	1.333
5.0	1.011
10.0	1.112
25.0	1.023
50.0	1.049
100.0	1.036
X =	1.0940
S =	0.1223

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation VerificationPage: 1 of 2
Reviewer: JVG
2nd Reviewer: A

METHOD: GC/MS NDMA (EPA Method 1625C)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

Ax = Area of Compound

Cx = Concentration of compound

S = Standard deviation of the RRFs

Ais = Area of associated internal standard

Cis = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/19/2011	NDMA (NDMA-d6)	1.0440	1.0442	1.1250	1.1250	7	7
	TE16311								

Cis/Cx	Ax	Ax
25/25	141169	135189

Conc	RRF
1.0	1.232
5.0	1.189
10.0	1.133
25.0	1.044
50.0	1.093
100.0	1.059
X =	1.1250
S =	0.0742

VALIDATION FINDINGS WORKSHEET Continuing Calibration Calculation Verification

METHOD: GC/MS NDMA (EPA Method 1625C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

Where:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (\text{Ax}) / (\text{Cis}) / (\text{Ais}) \times (\text{Cx})$$

Cx = Concentration of compound,
Ais = Area of associated internal standard
Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	CCV RRF	Reported RRF	Recalculated RRF	Reported % D	Recalculated % D
1	aa080 TE16311	1/6/2011	NDMA (NDMA-d6)	1.1250	0.9837	0.9837	12.56	12.56
2	aa107 TE16311	1/6/2011	NDMA (NDMA-d6)	1.1250	1.3980	1.0899	3.12	3.12
3	aa130 TE16311	1/7/2011	NDMA (NDMA-d6)	1.1250	1.3980	1.0375	7.78	7.78
3	aa210 TE16311	1/20/2011	NDMA (NDMA-d6)	1.0940	1.3980	1.0226	6.53	6.53

Compound (IS)	Cis/Cx	Ax	Ais
NDMA (NDMA-d6)	25/25	128015	130139
NDMA (NDMA-d6)	25/25	166734	152987
NDMA (NDMA-d6)	25/25	184427	177767
NDMA (NDMA-d6)	25/25	157886	154397

CCV1

CCV2

CCV3

CCV4

METHOD: GC/MS EPA (EPA SW 846 Method 8210G)
1625 C

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 * (\text{SC/SA})$$

Where: SSC = Spike concentration
SA = Spike added

$$RPD = |LCSC - LCSDC| * 2 / (LCSC + LCSDC)$$

LCSC = Laboratory control sample concentration

LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: 36 3 L G US

[illegible]

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 21, 2010

LDC Report Date: July 12, 2011

Matrix: Soil/Water

Parameters: Chlorinated Pesticides

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE049

Sample Identification

EB07-SA5B-122110
SL-159-SA5B-SS-0.0-0.5
SL-183-SA5B-SS-0.0-0.5
SL-219-SA5B-SS-0.0-0.5
SL-225-SA5B-SS-0.0-0.5
SL-226-SA5B-SS-0.0-0.5
SL-227-SA5B-SS-0.0-0.5

Introduction

This data review covers 6 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8081A for Chlorinated Pesticides.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for all samples in this SDG were reported between 6.4°C and 9.0°C upon receipt by the laboratory.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Column	Compound	%RSD	Associated Samples	Flag	A or P
1/13/11	A	4,4'-DDD 4,4'-DDT Endosulfan sulfate Methoxychlor	30.15 26.87 30.24 20.59	All water samples in SDG DE049	J (all detects) UJ (all non-detects)	A

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
1/13/11	IC5013.11R	A	beta-BHC	22.1	All water samples in SDG DE049	J (all detects) UJ (all non-detects)	A

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
1/13/11	IC5013.11R	B	beta-BHC	21.6	All water samples in SDG DE049	J (all detects) UJ (all non-detects)	A

Retention times (RT) of all compounds in the calibration standards were within QC limits.

The individual 4,4'-DDT and Endrin breakdowns (%BD) were less than or equal to 15.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

Sample EB07-SA5B-122110 was identified as an equipment blank. No chlorinated pesticide contaminants were found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
SL-159-SA5B-SS-0.0-0.5	B	Decachlorobiphenyl	129 (20-120)	All TCL compounds	J (all detects)	A
SL-183-SA5B-SS-0.0-0.5	A	Decachlorobiphenyl	0 (20-120)	All TCL compounds	J (all detects) R (all non-detects)	A
103640030A-Blk	A	Tetrachloro-m-xylene	32 (50-130)	All TCL compounds	J (all detects) UJ (all non-detects)	A

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
103570023A-LCS/D (All water samples in SDG DE049)	4,4'-DDE	-	137 (66-130)	-	J (all detects)	P
103640030A-LCS (All soil samples in SDG DE049)	alpha-BHC	33 (38-130)	-	-	J (all detects)	P
	gamma-BHC	42 (46-122)	-	-	UJ (all non-detects) J (all detects) UJ (all non-detects)	

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

All target compound identifications were within validation criteria.

XIII. Compound Quantitation and Reported CRQLs

All compound quantitation and CRQLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
SL-226-SA5B-SS-0.0-0.5	delta-BHC	57	J (all detects)	A
SL-227-SA5B-SS-0.0-0.5	beta-BHC	41	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE049	All compounds reported below the RL.	J (all detects)	A

Santa Susana Field Laboratory
Chlorinated Pesticides - Data Qualification Summary - SDG DE049

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	EB07-SA5B-122110	4,4'-DDD 4,4'-DDT Endosulfan sulfate Methoxychlor	J (all detects) UJ (all non-detects)	A	Initial calibration (%RSD) (C)
DE049	EB07-SA5B-122110	beta-BHC	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE049	SL-159-SA5B-SS-0.0-0.5	All TCL compounds	J (all detects)	A	Surrogate spikes (%R) (S)
DE049	SL-183-SA5B-SS-0.0-0.5	All TCL compounds	J (all detects) R (all non-detects)	A	Surrogate spikes (%R) (S)
DE049	EB07-SA5B-122110	4,4'-DDE	J (all detects)	P	Laboratory control samples (%R) (L)
DE049	SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	alpha-BHC gamma-BHC	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE049	SL-226-SA5B-SS-0.0-0.5	delta-BHC	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE049	SL-227-SA5B-SS-0.0-0.5	beta-BHC	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE049	EB07-SA5B-122110 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Chlorinated Pesticides - Field Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

METHOD: GC Chlorinated Pesticides (EPA SW846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/24/10 Temp: 6.4-9.0°C
II.	GC/ECD Instrument Performance Check	A	
III.	Initial calibration	SW	10/15/10 520, 12V
IV.	Continuing calibration/ICV	SW	ICV/CCV ≤ 2.0%
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	N	Client Specified
VIII.	Laboratory control samples	SW	LCS/D
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	A	
XIII.	Compound quantitation and reported CRQLs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	ND	EB = 1

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	EB07-SA5B-122110 W	11		21		31	103690030A-Blk S
2	SL-159-SA5B-SS-0.0-0.5	12		22		32	10357023A-Blk S
3	SL-183-SA5B-SS-0.0-0.5	13		23		33	
4	SL-219-SA5B-SS-0.0-0.5	14		24		34	
5	SL-225-SA5B-SS-0.0-0.5	15		25		35	
6	SL-226-SA5B-SS-0.0-0.5	16		26		36	
7	SL-227-SA5B-SS-0.0-0.5	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 25750 P3a
SDG #: 522 CAC

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: AT
2nd Reviewer: CA

Method: Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. GC/ECD Instrument performance check				
Was the instrument performance found to be acceptable?	☒	☐	☐	
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) $\leq 20\%$?	☒	☐	☐	
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	☒	☐	☐	
Did the initial calibration meet the curve fit acceptance criteria?	☒	☐	☐	
Were the RT windows properly established?	☒	☐	☐	
Were the required standard concentrations analyzed in the initial calibration?	☒	☐	☐	
IV. Continuing calibration				
What type of continuing calibration calculation was performed? ☒ %D or ☐ %R	☒	☐	☐	
Were Evaluation mix standards analyzed prior to the initial calibration and sample analysis?	☒	☐	☐	
Were endrin and 4,4'-DDT breakdowns $\leq 15\%$ for individual breakdown in the Evaluation mix standards?	☒	☐	☐	
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) $\leq 20\%$ or percent recoveries 80-120%?	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Were extract cleanup blanks analyzed with every batch requiring clean-up?	☒	☐	☐	
Was there contamination in the method blanks or clean-up blanks? If yes, please see the Blanks validation completeness worksheet.	☒	☐	☐	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	☒	☐	☐	
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	☒	☐	☐	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	☒	☐	☐	
VII. Matrix spike/Matrix spike duplicates				

LDC #: 25750 P3A
 SDG #: See Cont

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: LA
 2nd Reviewer: LA

Validation Area	Yes	No	NA	Findings/Comments
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.		☒		
Was a MS/MSD analyzed every 20 samples of each matrix?		☒		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			☒	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒			
Was an LCS analyzed per extraction batch?	☒			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		☒		
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		☒		
Were the performance evaluation (PE) samples within the acceptance limits?			☒	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions, dry weight factors, and clean-up activities applicable to level IV validation?	☒			
XII. System performance				
System performance was found to be acceptable.	☒			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		☒		
Target compounds were detected in the field duplicates.			☒	
XV. Field blanks				
Field blanks were identified in this SDG.	☒			
Target compounds were detected in the field blanks.		☒		

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II.
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ.
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK.
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL.
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM.
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Were Evaluation mix standards run before initial calibration and before samples?

Were Endrin & 4,4'-DDT breakdowns acceptable in the Evaluation Mix standard (

Was at least one standard run daily to verify the working curve?

Did the continuing calibration standards meet the percent difference (%D) of <20.0%?

Level IV/D Only

Were the retention times for all calibrated compounds within their respective acceptance windows?

[illegible]

A. alpha-BHC	E. Heptachlor	I. Dieldrin	M. 4,4'-DDD	Q. Endrin ketone	U. Toxaphene	Y. Aroclor-1242	CC. 2,4'-DDD	GG. Chlordane
B. beta-BHC	F. Aldrin	J. 4,4'-DDE	N. Endosulfan sulfate	R. Endrin aldehyde	V. Aroclor-1016	Z. Aroclor-1248	DD. 2,4'-DDE	HH. Chlordane (Technical)
C. delta-BHC	G. Heptachlor epoxide	K. Endrin	O. 4,4'-DDT	S. alpha-Chlordane	W. Aroclor-1221	AA. Aroclor-1254	EE. 2,4'-DDT	
D. gamma-BHC	H. Endosulfan I	L. Endosulfan II	P. Methoxychlor	T. gamma-Chlordane	X. Aroclor-1232	BB. Aroclor-1260	FF. Hexachlorobenzene	

LDC #: 25950F3A
SDG # 3a Cover

METHOD: GC EPA 8081/8082 Pesticides/HCB's

Are surrogates required by the method? Yes ☒ or No ☐

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were surrogates spiked into all samples and blanks?

Did all surrogate recoveries (%R) meet the QC limits?

[illegible]

Letter Designation	Surrogate Compound	Recovery QC Limits (Soil)	Recovery QC Limits (Water)	Comments
A	Tetrachloro-m-xylene			
B	Decachlorobiphenyl			

METHOD: ~~GC~~ GC — HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCS-D) analyzed for each matrix in this SDG?

Were the LCS percent recoveries (%R) and relative percent differences (RPD) within the QC limits?

~~Level IV/D Only~~

☒ N ☐ A

[illegible]

VALIDATION FINDINGS WORKSHEET

METHOD: ~~X~~GC — HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Y/N N/A

Y	N	N/A	Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

Did the percent difference of detected compounds between two columns <40%?

 If no, please see findings below.

[illegible]

Comments: See sample calculation verification worksheet for recalculations

LDC #: 25750534

SDG # See case

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: MA
2nd Reviewer: MA

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C

Average CF = sum of the CF/number of standards

%RSD = $100 * (S/X)$

Where: A = Area of compound

C = Concentration of compound

S = Standard deviation of calibration factors

X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated		Reported		Recalculated	
				CF	(10 ³ std)	CF	(10 ³ std)	CF (initial)		CF (initial)		%RSD		%RSD	
1	IAC	1/17/11	C (CLA)	1.39	E3	1.39	E3	1.48	E3	1.48	E3	10.4		19.4	
			O ↓	4.81	E3	4.81	E3	5.28	E3	5.28	E3	17.1		17.1	
			D (CLB)	4.32	E3	4.32	E3	4.49	E3	4.49	E3	10.3		10.3	
			O ↓	3.01	E3	3.01	E3	2.95	E3	2.95	E3	8.3		8.3	
2	IAC	1/25/11	D (OLA)	5.38	E3	5.38	E3	5.71	E3	5.71	E3	7.7		7.7	
			O ↓	2.54	E3	2.54	E3	2.65	E3	2.65	E3	16.0		16.0	
			D (CLB)	1.90	E3	1.90	E3	1.97	E3	1.97	E3	2.2		2.2	
			O ↓	1.07	E3	1.07	E3	1.05	E3	1.05	E3	4.2		4.2	
3	IAC	2/1/11	D (CLA)	6.44	E3	6.44	E3	6.39	E3	6.39	E3	1.7		1.7	
			O ↓	2.91	E3	2.91	E3	2.75	E3	2.75	E3	5.1		5.1	
			D (CLB)	1.96	E3	1.96	E3	1.95	E3	1.95	E3	2.6		2.6	
			O ↓	1.06	E3	1.06	E3	1.02	E3	1.02	E3	7.3		7.3	
4	IAC	2/2/11	D (CLA)	6.83	E3	6.83	E3	6.80	E3	6.80	E3	4.0		4.0	
			O ↓	3.36	E3	3.36	E3	3.15	E3	3.15	E3	6.8		6.8	
			D (CLB)	2.13	E3	2.13	E3	2.13	E3	2.13	E3	3.4		3.4	
			O ↓	1.45	E3	1.45	E3	1.41	E3	1.41	E3	4.8		4.8	

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750739
SDG #: 200 Conr

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Percent difference (%D) = $100 * (N - C) / N$

Where: N = Initial Calibration Factor or Nominal Amount (ng)

C = Calibration Factor from Continuing Calibration Standard or Calculated Amount (ng)

Standard ID	Calibration Date/Time	Compound	Average CF/ CCV Cont	Reported		Recalculated		Reported		Recalculated	
				CF/Cont CCV		CF/Cont CCV		%D		%D	
2P13033062	2/4/14	D (66A)	10.00	9.69		9.69		3.1		3.1	
		O	19.99	18.03		18.03		9.8		9.8	
		D (66B)	10.00	10.00		10.00		0		0	
		O	19.99	19.01		19.01		4.9		4.9	

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750F3C
SDG #: See Lab

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd reviewer: [Signature]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene	A	1.04	0.850296	82	82	0
Tetrachloro-m-xylene						
Decachlorobiphenyl	A	1.04	0.691712	66	66	0
Decachlorobiphenyl						

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Notes: _____

Page: 1 of 1
 Reviewer: JA
 2nd Reviewer: 1

[illegible]

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LDC #: 25750 P3a
SDG # See cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd reviewer: [Signature]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Y N N/A
8 N N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Example:

Sample I.D. 7 B:

$$\text{Conc.} = \frac{28997 (4 \text{ mL}) (1 \times)}{(2.55 \text{ E3}) (60 \text{ g}) (.823)}$$

= 0.92 ug/kg

#	Sample ID	Compound	Reported Concentration ()	Calculated Concentration ()	Qualification

Note: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 21, 2010

LDC Report Date: July 10, 2011

Matrix: Soil/Water

Parameters: Polychlorinated Biphenyls

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE049

Sample Identification

DUP15-SA5B-QC-122110

EB07-SA5B-122110

SL-006-SA5B-SB-4.0-5.0

SL-006-SA5B-SB-5.0-6.0

SL-046-SA5B-SB-4.0-5.0

SL-046-SA5B-SB-9.0-10.0

SL-047-SA5B-SB-4.0-5.0

SL-159-SA5B-SS-0.0-0.5

SL-183-SA5B-SS-0.0-0.5

SL-219-SA5B-SS-0.0-0.5

SL-225-SA5B-SS-0.0-0.5

SL-226-SA5B-SS-0.0-0.5

SL-227-SA5B-SS-0.0-0.5

SL-046-SA5B-SB-4.0-5.0MS

SL-046-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 14 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for all samples were reported at 6.4°C to 9.0°C upon receipt by the laboratory.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were evaluated and considered technically acceptable.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Affected Compound	Flag	A or P
1/6/11	1C20005B.89R	R2	Aroclor-5442	24.3	All water samples in SDG DE049	Aroclor-5442	J (all detects) UJ (all non-detects)	A
1/6/11	2C20005B.23R	R2	Aroclor-5442	20.4	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-4.0-5.0MS SL-046-SA5B-SB-4.0-5.0MSD 103640027A-BLK	Aroclor-5442	J (all detects) UJ (all non-detects)	A

The percent difference (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

Sample EB07-SA5B-122110 was identified as an equipment blank. No polychlorinated biphenyl contaminants were found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
DUP15-SA5B-QC-122110	R1	Decachlorobiphenyl	122 (45-120)	All TCL compounds	J (all detects)	P
SL-046-SA5B-SB-9.0-10.0	R1	Decachlorobiphenyl	148 (45-120)	All TCL compounds	J (all detects)	P
SL-047-SA5B-SB-4.0-5.0	R1	Decachlorobiphenyl	133 (45-120)	All TCL compounds	J (all detects)	P

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Affected Compound	Flag	A or P
SL-046-SA5B-SB-4.0-5.0MS/MSD (SL-046-SA5B-SB-4.0-5.0)	Aroclor-1260	-	151 (39-149)	-	Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1262 Aroclor-1268 Aroclor-1260	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Affected Compound	Flag	A or P
LCS/D water (All water samples in SDG DE049)	Aroclor-1260	-	142 (56-135)	-	Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1262 Aroclor-1268 Aroclor-1260	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	P
LCS/D water (All water samples in SDG DE049)	Aroclor-5442	56 (75-125)	64 (75-125)	-	Aroclor-5442 Aroclor-5432 Aroclor-5460	J (all detects) UJ (all non-detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

All target compound identifications were within validation criteria.

XIII. Compound Quantitation and Reported CRQLs

All compound quantitation and CRQLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
SL-159-SA5B-SS-0.0-0.5	Aroclor-5460	42	J (all detects)	A
SL-183-SA5B-SS-0.0-0.5	Aroclor-1254	87	J (all detects)	A
SL-225-SA5B-SS-0.0-0.5	Aroclor-1254	45	J (all detects)	A
SL-227-SA5B-SS-0.0-0.5	Aroclor-5460	41	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE049	All compounds reported below the RL.	J (all detects)	A

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

Samples SL-046-SA5B-SB-4.0-5.0 and DUP15-SA5B-QC-122110 were identified as field duplicates. No polychlorinated biphenyls were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	SL-046-SA5B-SB-4.0-5.0	DUP15-SA5B-QC-122110			
Aroclor-1254	0.71	4.9	149 (≤50)	J (all detects)	A
Aroclor-1260	1.8U	0.73	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Data Qualification Summary - SDG DE049

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	EB07-SA5B-122110 DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0	Aroclor-5442	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE049	DUP15-SA5B-QC-122110 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0	All TCL compounds	J (all detects)	P	Surrogate spikes (%R) (S)
DE049	SL-046-SA5B-SB-4.0-5.0	Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1262 Aroclor-1268 Aroclor-1260	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE049	EB07-SA5B-122110	Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1262 Aroclor-1268 Aroclor-1260	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	P	Laboratory control samples (%R) (L)
DE049	EB07-SA5B-122110	Aroclor-5442 Aroclor-5432 Aroclor-5460	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE049	SL-159-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	Aroclor-5460	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE049	SL-183-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5	Aroclor-1254	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE049	DUP15-SA5B-QC-122110 EB07-SA5B-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DE049	DUP15-SA5B-QC-122110 SL-046-SA5B-SB-4.0-5.0	Aroclor-1254	J (all detects)	A	Field duplicates (RPD) (FD)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	DUP15-SA5B-QC-122110 SL-046-SA5B-SB-4.0-5.0	Aroclor-1260	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

LDC #: 25750F3b **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE049

Level IV

Laboratory: Lancaster Laboratories

Date: 7-8-11

Page: 1 of 1

Reviewer: SW2nd Reviewer: A**METHOD:** GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/2/10 Temp = 6.4 - 9.0°C
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%RSD ≤ 20
IV.	Continuing calibration/ICV	SW	ICV/CCV ≤ 20%
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	SW	LCs/D
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	A	
XIII.	Compound quantitation and reported CRQLs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	SW	FD = 5 + 1
XVI.	Field blanks	ND	EB = 2

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	DUP15-SA5B-QC-122110 S	11	SL-225-SA5B-SS-0.0-0.5 S	21		31	103640027A - BLK S
2	EB07-SA5B-122110 W	12	SL-226-SA5B-SS-0.0-0.5	22		32	103570024A - BLK W
3	SL-006-SA5B-SB-4.0-5.0 S	13	SL-227-SA5B-SS-0.0-0.5	23		33	
4	SL-006-SA5B-SB-5.0-6.0	14	SL-046-SA5B-SB-4.0-5.0MS	24		34	
5	SL-046-SA5B-SB-4.0-5.0	15	SL-046-SA5B-SB-4.0-5.0MS	25		35	
6	SL-046-SA5B-SB-9.0-10.0	16		26		36	
7	SL-047-SA5B-SB-4.0-5.0	17		27		37	
8	SL-159-SA5B-SS-0.0-0.5	18		28		38	
9	SL-183-SA5B-SS-0.0-0.5	19		29		39	
10	SL-219-SA5B-SS-0.0-0.5	20		30		40	

Notes:

LDC #: 25750F36
SDG #: See Cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: WJ
2nd Reviewer: C

Method: Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. GC/ECD Instrument performance check				
Was the instrument performance found to be acceptable?	/			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) $\leq 20\%$?	/			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?		/		
Did the initial calibration meet the curve fit acceptance criteria?			/	
Were the RT windows properly established?	/			
Were the required standard concentrations analyzed in the initial calibration?	/			
IV. Continuing calibration				
What type of continuing calibration calculation was performed? <u>/</u> %D or %R				
Were Evaluation mix standards analyzed prior to the initial calibration and sample analysis?			/	
Were endrin and 4,4'-DDT breakdowns $\leq 15\%$ for individual breakdown in the Evaluation mix standards?			/	
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) $\leq 20\%$ or percent recoveries 80-120%?		/		
Were all the retention times within the acceptance windows?	/			
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Were extract cleanup blanks analyzed with every batch requiring clean-up?	/			
Was there contamination in the method blanks or clean-up blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	/			
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?		/		
VII. Matrix spike/Matrix spike duplicates				

LDC #: 2575043b
 SDG #: See cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: LA
 2nd Reviewer: C

Validation Area	Yes	No	NA	Findings/Comments
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☒	☐	☐	
Was a MS/MSD analyzed every 20 samples of each matrix?	☒	☐	☐	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☒	☐	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☐	☒	☐	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☒	☐	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☒	☐	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒	☐	☐	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions, dry weight factors, and clean-up activities applicable to level IV validation?	☒	☐	☐	
XII. System performance				
System performance was found to be acceptable.	☒	☐	☐	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒	☐	☐	
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	☒	☐	☐	
Target compounds were detected in the field duplicates.	☒	☐	☐	
XV. Field blanks				
Field blanks were identified in this SDG.	☒	☐	☐	
Target compounds were detected in the field blanks.	☐	☒	☐	

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor - 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. 5432
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. 5442
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. ✓ 5460
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:

LDC #: 757501-50
SDG #: Sea Cover

Please see qualifications below for all questions answered "N" Not applicable questions are identified as "N/A".

Y N ~~N/A~~

Y/N N/A

Level IV/D Only

Y N N/A

Were the retention times for all calibrated compounds within their respective acceptance windows?

[illegible]

A. alpha-BHC	E. Heptachlor	I. Dieldrin	M. 4,4'-DDD	Q. Endrin ketone	U. Toxaphene	Y. Aroclor-1242	CC. 2,4'-DDD	GG. Chlordane
B. beta-BHC	F. Aldrin	J. 4,4'-DDE	N. Endosulfan sulfate	R. Endrin aldehyde	V. Aroclor-1016	Z. Aroclor-1248	DD. 2,4'-DDE	HH. Chlordane (Technical)
C. delta-BHC	G. Heptachlor epoxide	K. Endrin	O. 4,4'-DDT	S. alpha-Chlordane	W. Aroclor-1254	AA. Aroclor-1254	EE. 2,4'-DDT	
D. gamma-BHC	H. Endosulfan I	L. Endosulfan II	P. Methoxychlor	T. gamma-Chlordane	X. Aroclor-1232	BB. Aroclor-1260	FF. Hexachlorobenzene	

LDC #: 25750130
SDG #: See cover

METHOD: GC EPA 8081/8082 Pesticides/PCB's

Are surrogates required by the method? Yes ☒ or No ☐:

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y/N N/A Were surrogates spiked into all samples and blanks?

Y/N/A	Did all surrogate recoveries (%R) meet the QC limits?
Y	
X	
N/A	

[illegible]

Letter Designation	Surrogate Compound	Recovery QC Limits (Soil)	Recovery QC Limits (Water)	Comments
A	Tetrachloro-m-xylene			
B	Decachlorobiphenyl			

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Question	Yes	No	N/A
Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCS-D) analyzed for each matrix in this SDG?	☒	☐	☐
Were the LCS percent recoveries (%R) and relative percent differences (RPD) within the QC limits?	☒	☐	☐

Level IV/D Only
Y N N/A

Was an LCS analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

LCSNew.wpd

METHOD: ~~GC~~ — HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?

Did the reported results for detected target compounds agree within 10.0% of the recalculated results?	Y/N	N/A

Y ☒ N/A

If no, please see findings below.

[illegible]

Comments: See sample calculation verification worksheet for recalculations

METHOD: ~~X~~ GC HPLC

Were field duplicate pairs identified in this SDG?

Were target compounds detected in the field duplicate pairs?

[illegible][illegible]

LDC #: 25750P30
SDG #: GLE CASE

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = $100 * (S/X)$
Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated		Reported		Recalculated	
				CF (200 std)	CF (200 std)	CF (200 std)	CF (200 std)	CF (initial)	CF (initial)	CF (initial)	CF (initial)	%RSD	%RSD	%RSD	%RSD
1	ICAL	1/5/11	BB (P1) (Peak 1) ↓ (P2) (Peak 1)	57	57	57	57	62	62	62	62	6.9	6.9	6.9	6.9
				132	132	132	132	150	150	150	150	7.2	7.2	7.2	7.2
2	ICAL	1/11/11	BB (P1) (Peak 1) ↓ (P2) (Peak 1)	87	87	87	87	94	94	94	94	8.7	8.7	8.7	8.7
				224	224	224	224	240	240	240	240	11.0	11.0	11.0	11.0
3															
4															

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750 Pzb
SDG #: See Cal

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Percent difference (%D) = $100 * (N - C) / N$

Where: N = Initial Calibration Factor or Nominal Amount (ng)

C = Calibration Factor from Continuing Calibration Standard or Calculated Amount (ng)

Standard ID	Calibration Date/Time	Compound	Average CF/ CCV <u>Conc</u>	Reported	Recalculated	Reported	Recalculated
				CF/ <u>Conc</u> CCV	CF/ <u>Conc</u> CCV	%D	%D
1C200587R	1/6/11	Bb (P ₁) ↓ (P ₂)	200.00	198.56	198.56	0.7	0.7
			200.00	213.91	213.91	7.0	7.0
2C200587R	1/6/11	Bb (P ₁) ↓ (P ₂)	200.00	203.14	203.14	1.6	1.6
			200.00	194.96	194.96	2.5	2.5

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750P3b
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: MT
2nd reviewer: A

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 8

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene	<u>R1</u>	<u>1.04</u>	<u>0.978569</u>	<u>94</u>	<u>94</u>	<u>0</u>
Tetrachloro-m-xylene						
Decachlorobiphenyl	<u>R2</u>	<u>1.04</u>	<u>0.971362</u>	<u>93</u>	<u>93</u>	<u>0</u>
Decachlorobiphenyl						

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Notes: _____

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$

where

SSC = Spiked sample concentration

SC = Sample concentration

SA = Spike added

MSD = Matrix spike duplicate

$$RPD = (((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD)) * 100$$

MS/MSD samples: 14/15

[illegible]

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1
Reviewer: WJ
2nd Reviewer: C

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

Where: SSC = Spiked sample concentration
SA = Spike added

SC = Concentration

LCS = Laboratory control sample percent recovery

LCS D = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: 103570024A-LCS/D

[illegible]

Comments: Refer to Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750P3b
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: HT
2nd reviewer: A

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

☒ N N/A
☒ N N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Example:

Sample I.D. 8 BbB :

$$\text{Conc.} = \frac{(16693.26) (2\text{mL})}{(240) (60\text{g})}$$

$$= 2.31$$

(Peak 1)

$$\frac{(2.31 + 6.83 + 1.28 + 1.17 + 0.53)}{5} \quad (.858)$$

$$= 2.8 \text{ ug/kg} \checkmark$$

#	Sample ID	Compound	Reported Concentration ()	Calculated Concentration ()	Qualification

Note: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 21, 2010

LDC Report Date: July 12, 2011

Matrix: Soil/Water

Parameters: Metals

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE049

Sample Identification

DUP15-SA5B-QC-122110

EB07-SA5B-122110

SL-006-SA5B-SB-4.0-5.0

SL-006-SA5B-SB-5.0-6.0

SL-046-SA5B-SB-4.0-5.0

SL-046-SA5B-SB-9.0-10.0

SL-047-SA5B-SB-4.0-5.0

SL-159-SA5B-SS-0.0-0.5

SL-183-SA5B-SS-0.0-0.5

SL-219-SA5B-SS-0.0-0.5

SL-225-SA5B-SS-0.0-0.5

SL-226-SA5B-SS-0.0-0.5

SL-227-SA5B-SS-0.0-0.5

SL-046-SA5B-SB-4.0-5.0MS

SL-046-SA5B-SB-4.0-5.0MSD

SL-046-SA5B-SB-4.0-5.0DUP

Introduction

This data review covers 15 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7000 for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, and Zirconium.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No metal contaminants were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Copper Phosphorus Tin	0.092 mg/Kg 1.693 mg/Kg 1.242 mg/Kg	All soil samples in SDG DE049
ICB/CCB	Beryllium Strontium Titanium	0.060 ug/L 0.34 ug/L 0.64 ug/L	All soil samples in SDG DE049
ICB/CCB	Magnesium	51.0 ug/L	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-4.0-5.0
ICB/CCB	Magnesium	41.2 ug/L	SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5
ICB/CCB	Iron	79.1 ug/L	SL-183-SA5B-SS-0.0-0.5

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Copper Lead	0.578 ug/L 0.234 ug/L	All water samples in SDG DE049

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
DUP15-SA5B-QC-122110	Tin	2.3 mg/Kg	2.3U mg/Kg
SL-006-SA5B-SB-4.0-5.0	Tin	2.4 mg/Kg	2.4U mg/Kg
SL-006-SA5B-SB-5.0-6.0	Tin	1.6 mg/Kg	1.6U mg/Kg
SL-046-SA5B-SB-4.0-5.0	Tin	2.2 mg/Kg	2.2U mg/Kg
SL-046-SA5B-SB-9.0-10.0	Tin	2.0 mg/Kg	2.0U mg/Kg
SL-047-SA5B-SB-4.0-5.0	Tin	2.4 mg/Kg	2.4U mg/Kg
SL-159-SA5B-SS-0.0-0.5	Tin	2.0 mg/Kg	2.0U mg/Kg
SL-183-SA5B-SS-0.0-0.5	Tin	2.5 mg/Kg	2.5U mg/Kg
SL-219-SA5B-SS-0.0-0.5	Tin	3.0 mg/Kg	3.0U mg/Kg
SL-225-SA5B-SS-0.0-0.5	Tin	2.7 mg/Kg	2.7U mg/Kg
SL-226-SA5B-SS-0.0-0.5	Tin	2.6 mg/Kg	2.6U mg/Kg
SL-227-SA5B-SS-0.0-0.5	Tin	2.0 mg/Kg	2.0U mg/Kg
EB07-SA5B-122110	Lead	0.060 ug/L	0.060U ug/L

Sample EB07-SA5B-122110 was identified as an equipment blank. No metal contaminants were found in this blank with the following exceptions:

Equipment Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
EB07-SA5B-122110	12/21/10	Lead	0.03 ug/L	All soil samples in SDG DE049

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-046-SA5B-SB-4.0-5.0MS/MSD (All soil samples in SDG DE049)	Antimony	43 (75-125)	44 (75-125)	-	J (all detects) UJ (all non-detects)	A
	Calcium	-	-	23 (≤20)	J (all detects) UJ (all non-detects)	
SL-046-SA5B-SB-4.0-5.0MS/MSD (All soil samples in SDG DE049)	Arsenic	154 (75-125)	170 (75-125)	-	J (all detects)	A
	Chromium	129 (75-125)	-	-	J (all detects)	
	Lead	145 (75-125)	-	-	J (all detects)	
	Molybdenum	126 (75-125)	-	-	J (all detects)	

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
SL-046-SA5B-SB-4.0-5.0DUP (All soil samples in SDG DE049)	Cobalt	22 (≤20)	-	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Internal Standards

All internal standard percent recoveries (%R) were within QC limits.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution analysis was performed by the laboratory. The analysis criteria were met with the following exceptions:

Diluted Sample	Analyte	%D (Limits)	Associated Samples	Flag	A or P
SL-046-SA5B-SB-4.0-5.0	Chromium Cobalt Copper Lithium	17 (≤ 10) 22 (≤ 10) 23 (≤ 10) 11 (≤ 10)	All soil samples in SDG DE049	J (all detects) UJ (all non-detects)	A

XII. Sample Result Verification

All sample result verifications were acceptable.

All metals reported below the RL and above the MDL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE049	All analytes reported below the RL and above the MDL.	J (all detects)	A

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples DUP15-SA5B-QC-122110 and SL-046-SA5B-SB-4.0-5.0 were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	DUP15-SA5B-QC-122110	SL-046-SA5B-SB-4.0-5.0			
Aluminum	12400	13700	10 (≤50)	-	-
Antimony	0.070	0.086	21 (≤50)	-	-
Arsenic	4.4	4.0	10 (≤50)	-	-
Barium	99.5	79.8	22 (≤50)	-	-
Beryllium	0.49	0.51	4 (≤50)	-	-
Boron	4.6	3.1	39 (≤50)	-	-
Cadmium	0.10	0.084	17 (≤50)	-	-
Calcium	4610	3860	18 (≤50)	-	-
Chromium	19.2	15.1	24 (≤50)	-	-
Cobalt	6.1	4.7	26 (≤50)	-	-
Copper	8.1	7.3	10 (≤50)	-	-
Iron	21000	19900	5 (≤50)	-	-
Lead	4.5	4.9	9 (≤50)	-	-
Lithium	28.8	27.1	6 (≤50)	-	-
Magnesium	5690	5110	11 (≤50)	-	-
Manganese	259	260	0 (≤50)	-	-
Mercury	0.0032U	0.0067	200 (≤50)	J (all detects) UJ (all non-detects)	A
Molybdenum	0.34	0.39	15 (≤50)	-	-
Nickel	11.7	9.7	19 (≤50)	-	-
Phosphorus	429	393	9 (≤50)	-	-

Analyte	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	DUP15-SA5B-QC-122110	SL-046-SA5B-SB-4.0-5.0			
Potassium	3430	3360	2 (≤50)	-	-
Selenium	0.14	0.17	19 (≤50)	-	-
Silver	0.021	0.019	10 (≤50)	-	-
Sodium	124	121	2 (≤50)	-	-
Strontium	12.3	13.9	12 (≤50)	-	-
Thallium	0.34	0.30	13 (≤50)	-	-
Tin	2.3	2.2	4 (≤50)	-	-
Titanium	1240	1250	1 (≤50)	-	-
Vanadium	40.6	45.6	12 (≤50)	-	-
Zinc	67.6	54.2	22 (≤50)	-	-
Zirconium	0.88U	1.1	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Metals - Data Qualification Summary - SDG DE049

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE049	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	Antimony	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE049	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	Calcium	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD) (E)
DE049	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	Arsenic Chromium Lead Molybdenum	J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE049	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	Cobalt	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD) (E)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE049	DUP15-SA5B-QC-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	Chromium Cobalt Copper Lithium	J (all detects) UJ (all non-detects)	A	ICP serial dilution (%D) (A)
DE049	DUP15-SA5B-QC-122110 EB07-SA5B-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)
DE049	DUP15-SA5B-QC-122110 SL-046-SA5B-SB-4.0-5.0	Mercury Zirconium	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Metals - Laboratory Blank Data Qualification Summary - SDG DE049

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE049	DUP15-SA5B-QC-122110	Tin	2.3U mg/Kg	A	B
DE049	SL-006-SA5B-SB-4.0-5.0	Tin	2.4U mg/Kg	A	B
DE049	SL-006-SA5B-SB-5.0-6.0	Tin	1.6U mg/Kg	A	B
DE049	SL-046-SA5B-SB-4.0-5.0	Tin	2.2U mg/Kg	A	B
DE049	SL-046-SA5B-SB-9.0-10.0	Tin	2.0U mg/Kg	A	B
DE049	SL-047-SA5B-SB-4.0-5.0	Tin	2.4U mg/Kg	A	B
DE049	SL-159-SA5B-SS-0.0-0.5	Tin	2.0U mg/Kg	A	B
DE049	SL-183-SA5B-SS-0.0-0.5	Tin	2.5U mg/Kg	A	B

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE049	SL-219-SA5B-SS-0.0-0.5	Tin	3.0U mg/Kg	A	B
DE049	SL-225-SA5B-SS-0.0-0.5	Tin	2.7U mg/Kg	A	B
DE049	SL-226-SA5B-SS-0.0-0.5	Tin	2.6U mg/Kg	A	B
DE049	SL-227-SA5B-SS-0.0-0.5	Tin	2.0U mg/Kg	A	B
DE049	EB07-SA5B-122110	Lead	0.060U ug/L	A	B

Santa Susana Field Laboratory
Metals - Field Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

LDC #: 25750F4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE049

Level IV

Laboratory: Lancaster Laboratories

Date: 7/5/11

Page: 5 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/21/10
II.	ICP/MS Tune	A	
III.	Calibration	A	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	SW	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS/D
IX.	Internal Standard (ICP-MS)	A	
X.	Furnace Atomic Absorption QC	N	Not utilized
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	SW	(1,5)
XV.	Field Blanks	SW	EB=7

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil/Water

1 ³	DUP15-SA5B-QC-122110	11 ⁶	SL-225-SA5B-SS-0.0-0.5	21		31	DBW
2	EB07-SA5B-122110	12 ⁶	SL-226-SA5B-SS-0.0-0.5	22		32	PR3
3 ⁵	SL-006-SA5B-SB-4.0-5.0	13 ⁶	SL-227-SA5B-SS-0.0-0.5	23		33	
4 ⁰	SL-006-SA5B-SB-5.0-6.0	14	SL-046-SA5B-SB-4.0-5.0MS	24		34	
5 ¹	SL-046-SA5B-SB-4.0-5.0	15	SL-046-SA5B-SB-4.0-5.0MSD	25		35	
6 ¹	SL-046-SA5B-SB-9.0-10.0	16	SL-046-SA5B-SB-4.0-5.0DUP	26		36	
7 ²	SL-047-SA5B-SB-4.0-5.0	17		27		37	
8 ³	SL-159-SA5B-SS-0.0-0.5	18		28		38	
9 ⁴	SL-183-SA5B-SS-0.0-0.5	19		29		39	
10 ⁵	SL-219-SA5B-SS-0.0-0.5	20		30		40	

Notes: _____

Method: Metals (EPA SW 846 Method 6010B/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	/			
Were %RSD of isotopes in the tuning solution $\leq 5\%$?	/			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	/			
Were the proper number of standards used?	/			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	/			
Were all initial calibration correlation coefficients > 0.995 ?	/			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/			
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	/			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	/			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		/		
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ for waters and $\leq 35\%$ for soil samples? A control limit of $\pm RL (\pm 2X RL \text{ for soil})$ was used for samples that were $\leq 5X$ the RL, including when only one of the duplicate sample values were $\leq 5X$ the RL.		/		
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	/			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			☒	
Do all applicable analyses have duplicate injections? (Level IV only)			☒	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			☒	
Were analytical spike recoveries within the 85-115% QC limits?			☒	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL (ICP/MS)?	☒			
Were all percent differences (%Ds) < 10%?		☒		
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		☒		
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	☒			
If the %Rs were outside the criteria, was a reanalysis performed?	☒			
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		☒		
Were the performance evaluation (PE) samples within the acceptance limits?		☒		
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	☒			
Target analytes were detected in the field duplicates.	☒			
XV. Field blanks				
Field blanks were identified in this SDG.	☒			
Target analytes were detected in the field blanks.		☒		

All circled elements are applicable to each sample.

[illegible]

Comments: Mercury by CVAA if performed

Sample Concentration units, unless otherwise noted: ~~mg/L~~ ug/L Associated Samples: All Water

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	No Qualifiers														
Cu		0.578		2.89															
Pb		0.234		1.17	0.060														

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note: a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

Y	N	N/A	Were field blanks identified in this SDG?

Were target analytes detected in the field blanks?	
Y	N/A

Blank units: ug/L Associated sample units: mg/Kg

Sampling date: 12/21/10 Soil factor applied 100x

Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: All Soil

[illegible]

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

LEVEL IV ONLY:

NY N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

[illegible]

ICSA.wpd

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a matrix spike analyzed for each matrix in this SDG?

Were matrix spike percent recoveries (%R) within the conf

of 4 or more, no action was taken.

Were all duplicate sample relative differences (RP

LEVEL IV ONLY:

Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

[illegible]

Comments:

Duplicate Analysis

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Sample ID	Sample Type	Sample Location	Sample Date	Sample Time	Sample Duration	Sample Volume	Sample Weight	Sample Temperature	Sample pH	Sample Conductivity	Sample Turbidity	Sample Color	Sample Odor	Sample Taste	Sample Appearance	Sample Notes
1	Water	Well A	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
2	Water	Well B	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
3	Water	Well C	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
4	Water	Well D	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
5	Water	Well E	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
6	Water	Well F	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
7	Water	Well G	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
8	Water	Well H	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
9	Water	Well I	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
10	Water	Well J	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
11	Water	Well K	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
12	Water	Well L	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
13	Water	Well M	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
14	Water	Well N	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
15	Water	Well O	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
16	Water	Well P	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
17	Water	Well Q	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
18	Water	Well R	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
19	Water	Well S	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
20	Water	Well T	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
21	Water	Well U	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
22	Water	Well V	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
23	Water	Well W	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None	Clear	None
24	Water	Well X	2023-10-26	08:00	10 min	100 mL	100 g	20°C	7.5	150 µS/cm	0.5 NTU	10 PCU	None	None		

☒ N/A

~~LEVEL IV ONLY:~~

Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

[illegible]

Comments:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

	Y	N	N/A
If analyte concentrations were > 50X the MDL (ICP) or >100X the MDL (ICP/MS), was a serial dilution analyzed?			

Y	N	N/A	Were ICP serial dilution percent differences (%D) <10%?

Y	N	N/A	Is there evidence of negative interference? If yes, professional judgement will be used to qualify the data.

LEVEL IV ONLY:

Y	N	N/A	Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.
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[illegible]

Comments:

LDC#: 25750F4

VALIDATION FINDINGS WORKSHEET **Field Duplicates**

Page: 1 of 2
Reviewer: *[Signature]*
2nd Reviewer: *[Signature]*

METHOD: Metals (EPA Method 6010B/7000)

Y N N A
Y N N A

Were field duplicate pairs identified in this SDG?

Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/Kg)		RPD (≤50)	<i>Part OK</i>
	1	5		
Aluminum	12400	13700	10	
Antimony	0.070	0.086	21	
Arsenic	4.4	4.0	10	
Barium	99.5	79.8	22	
Beryllium	0.49	0.51	4	
Boron	4.6	3.1	39	NG (≤5XRL)
Cadmium	0.10	0.084	17	
Calcium	4610	3860	18	
Chromium	19.2	15.1	24	
Cobalt	6.1	4.7	26	
Copper	8.1	7.3	10	
Iron	21000	19900	5	
Lead	4.5	4.9	9	
Lithium	28.8	27.1	6	
Magnesium	5690	5110	11	
Manganese	259	260	0	
Mercury	0.0032U	0.0067	200 <i>24</i>	NG (≤5XRL) U/US/A
Molybdenum	0.34	0.039 0.39	150 15	NG (≤5XRL) U/US/A
Nickel	11.7	9.7	19	

LDC#: 25750F4**VALIDATION FINDINGS WORKSHEET**
Field DuplicatesPage: 22 of 22
Reviewer: [Signature]
2nd Reviewer: [Signature]**METHOD:** Metals (EPA Method 6010B/7000)Y N NA
Y N NA

Were field duplicate pairs identified in this SDG?

Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/Kg)		RPD (≤50)	
	1	5		
Phosphorus	429	393	9	
Potassium	3430	3360	2	
Selenium	0.14	0.17	19	
Silver	0.021	0.019	10	
Sodium	124	121	2	
Strontium	12.3	13.9	12	
Thallium	0.34	0.30	13	
Tin	2.3	2.2	4	
Titanium	1240	1250	1	
Vanadium	40.6	45.6	12	
Zinc	67.6	54.2	22	
Zirconium	0.88U	1.1	<u>200</u> <u>21</u>	<u>U/US/A</u>

V:\FIELD DUPLICATES\FD_inorganic\25750F4.wpd

LDC #: 2528074

VALIDATION FINDINGS WORKSHEET

Initial and Continuing Calibration Calculation VerificationPage: 1 of 1
Reviewer: CF
2nd Reviewer: CF

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated		Reported		Acceptable (Y/N)
					%R		%R		
ICV	ICP (Initial calibration)	Mg	29160.57	3000	97.2		97.2		Y
ICV	ICPMS (Initial calibration)	Tl	50.34	50	100.7		100.7		
ICV	CVAA (Initial calibration)	Hg	2.42	2.5	96.8		96.8		
CCV (2013)	ICP (Continuing calibration)	Sr	509.84	500	102.0		102.0		
CCV (13:53)	ICPMS (Continuing calibration)	Sb	2603	25	104.1		104.1		
CCV	CVAA (Continuing calibration)	Hg	1.0	1.0	100		100		
	GFAA (Initial calibration)								
	GFAA (Continuing calibration)								

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 2578079

VALIDATION FINDINGS WORKSHEET Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: GR
2nd Reviewer: LN

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found} \times 100}{\text{True}}$$

Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation,
Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$

Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$$\%D = \frac{|I-SDR|}{I} \times 100$$

Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (upts) (mg/L)	True / D / SDR (upts) mg/L	Recalculated		Reported		Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	%R / RPD / %D	%R / RPD / %D	
ICS AD	ICP interference check	Ag	20.8 ug/L	20 ug/L	104	104	104	104	Y
LCS	Laboratory control sample	P	1025.7	1000	103	103	103	103	Y
M	Matrix spike	Cr	(SSR-SR) 14.0836	10.8814	129	129	129	129	Y
16	Duplicate	Zn	54.2204	54.6334	18	18	18	18	Y
5	ICP serial dilution	Zn	261.6	253.6	1	1	1	1	Y

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750FYVALIDATION FINDINGS WORKSHEET
Sample Calculation VerificationPage: 1 of 2
Reviewer: CR
2nd reviewer: W

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?

Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?

Y N N/A Are all detection limits below the CRDL?

Detected analyte results for P were recalculated and verified using the following equation:Concentration = $\frac{(RD)(FV)(Dil)}{(In. Vol.)}$

Recalculation:

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

$$\frac{100\text{mL} (3.75995\text{mg/L})}{0.919(1.04\text{g})} = 393\text{mg/kg}$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	<u>5</u>	Al	13700	13700	✓
		Sb	0.086	0.086	
		As	4.0	4.0	
		Ba	79.8	79.8	
		Be	0.51	0.51	
		B	3.1	3.1	
		Cl	0.084	0.084	
		Ca	3860	3860	
		Cr	15.1	15.1	
		Co	4.7	4.7	
		Cu	7.3	7.3	
		Fe	19900	19900	
		Pb	4.9	4.9	
		Li	27.1	27.1	
		Mg	5110	5110	
		Mn	260	260	
		Hg	0.0067	0.0067	
		Mo	3.39	3.39	
		Ni	9.7	9.7	
		P	393	393	

Note:

K	3360	3360
Se	0.17	0.17
Ag	0.019	0.019
Nb	121	121
Sr	13.9	13.9
Tl	0.30	0.30
Sn	2.2	2.2
Ti	1250	1250
V	45.6	45.6
Zn	54.2	54.2
Zr	1.1	1.1

LDC #: 25750 FYVALIDATION FINDINGS WORKSHEET
Sample Calculation VerificationPage 2 of 2
Reviewer: CR
2nd reviewer: W

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y	N	N/A	Have results been reported and calculated correctly?
Y	N	N/A	Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y	N	N/A	Are all detection limits below the CRDL?

Detected analyte results for Li were recalculated and verified using the following equation:Concentration = $\frac{(RD)(FV)(Dil)}{(In. Vol.)}$

Recalculation:

RD	=	Raw data concentration
FV	=	Final volume (ml)
In. Vol.	=	Initial volume (ml) or weight (G)
Dil	=	Dilution factor

$$\frac{100\text{ mL}(0.16732\text{ mg/L})}{0.842(1.00)} = 19.9\text{ mg/kg}$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	9	Al	15900	15900	Y
		Sb	0.12	0.12	
		As	8.5	8.5	
		Ba	137	137	
		Be	0.86	0.86	
		Ca	0.23	0.23	
		Co	3360	3360	
		Cr	24.2	24.2	
		Cu	7.0	7.0	
		Fe	12.7	12.7	
		Pb	38200	38200	
		Li	12.9	12.9	
		Mn	19.9	19.9	
		Mo	4400	4400	
		Ni	321	321	
		P	0.036	0.036	
		Se	0.85	0.85	
		Sr	15.9	15.9	
		Ti	502	502	
		V	3220	3220	
		Zn	0.19	0.19	
			0.050	0.050	
			91.7	91.7	
			26.2	26.2	
			0.34	0.34	
			2.5	2.5	
			1190	1190	
			46.9	46.9	
			75.5	75.5	

Note:

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 21, 2010

LDC Report Date: July 10, 2011

Matrix: Soil/Water

Parameters: Herbicides

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE049

Sample Identification

EB07-SA5B-122110
SL-159-SA5B-SS-0.0-0.5
SL-183-SA5B-SS-0.0-0.5
SL-219-SA5B-SS-0.0-0.5
SL-225-SA5B-SS-0.0-0.5
SL-226-SA5B-SS-0.0-0.5
SL-227-SA5B-SS-0.0-0.5

Introduction

This data review covers 6 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8151A for Herbicides.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for all samples were reported at 6.4°C to 9.0°C upon receipt by the laboratory.

II. Initial Calibration

Initial calibration of compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 with the following exceptions:

Date	Column	Compound	r^2	Associated Samples	Flag	A or P
12/23/10	CLP1	Dalapon	0.9803	All water samples in SDG DE049	J (all detects) UJ (all non-detects)	A
1/6/11	CLP1	Dinoseb	0.9474	All soil samples in SDG DE049	J (all detects) UJ (all non-detects)	A

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at the required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
12/23/10	1H183547.12R	CLP1	Dicamba Dalapon Dichlorprop 2,4-D	29.7 148.5 51.3 43.3	All water samples in SDG DE049	J (all detects) UJ (all non-detects)	P
12/23/10	1H183547.12R	CLP11	Dalapon Dichlorprop 2,4-D	80.8 23.0 21.6	All water samples in SDG DE049	J (all detects) UJ (all non-detects)	A

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
1/7/11	1H15006.47R	CLP1	Dinoseb	41.3	All soil samples in SDG DE049	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
1/6/11	1H15006.11R	CLP1	2,4,5-T	20.1	All soil samples in SDG DE049	J (all detects) UJ (all non-detects)	A
1/6/11	1H15006.11R	CLP11	2,4,5-T	22.4	All soil samples in SDG DE049	J (all detects) UJ (all non-detects)	A

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No herbicide contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
110040013A-BLK	1/4/11	MCP	500 ug/Kg	SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-227-SA5B-SS-0.0-0.5	MCP	230 ug/Kg	300U ug/Kg

Sample EB07-SA5B-122110 was identified as an equipment blank. No herbicide contaminants were found in this blank.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
SL-225-SA5B-SS-0.0-0.5	CLP1	2,4-Dichlorophenyl acetic acid	243 (36-156)	All TCL compounds	J (all detects)	P

VI. Matrix Spike/(Matrix Spike) Duplicate

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
110040013A-LCS (All soil samples in SDG DE049)	Dinoseb	8 (10-136)	-	-	J (all detects) R (all non-detects)	P
103560021A-LCS (All water samples in SDG DE049)	Dichlorprop 2,4-D	160 (72-145) 140 (45-128)	168 (72-145) 148 (45-128)	- -	J (all detects) J (all detects)	P

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
SL-219-SA5B-SS-0.0-0.5	2,4,5-TP 2,4,5-T 2,4-DB	69 65 74	J (all detects) J (all detects) J (all detects)	A
SL-225-SA5B-SS-0.0-0.5	2,4-DB	62	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE049	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Herbicides - Data Qualification Summary - SDG DE049

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	EB07-SA5B-122110	Dalapon	J (all detects) UJ (all non-detects)	A	Initial calibration (r^2) (C)
DE049	SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	Dinoseb	J (all detects) UJ (all non-detects)	A	Initial calibration (r^2) (C)
DE049	EB07-SA5B-122110	Dicamba Dalapon Dichlorprop 2,4-D	J (all detects) UJ (all non-detects)	P	Continuing calibration (%D) (C)
DE049	SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	Dinoseb	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE049	SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	2,4,5-T	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE049	SL-225-SA5B-SS-0.0-0.5	All TCL compounds	J (all detects)	P	Surrogate spikes (%R) (S)
DE049	SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	Dinoseb	J (all detects) R (all non-detects)	P	Laboratory control samples (%R) (L)
DE049	EB07-SA5B-122110	Dichlorprop 2,4-D	J (all detects) J (all detects)	P	Laboratory control samples (%R) (L)
DE049	SL-219-SA5B-SS-0.0-0.5	2,4,5-TP 2,4,5-T 2,4-DB	J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (RPD) (*IX)
DE049	SL-225-SA5B-SS-0.0-0.5	2,4-DB	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*IX)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	EB07-SA5B-122110 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Herbicides - Laboratory Blank Data Qualification Summary - SDG DE049

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DE049	SL-227-SA5B-SS-0.0-0.5	MCPP	300U ug/Kg	A	B

Santa Susana Field Laboratory
Herbicides - Field Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

LDC #: 25750F5

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE049

Level IV

Laboratory: Lancaster Laboratories

Date: 7-6-11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC Herbicides (EPA SW 846 Method 8151A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/21/10 Temp = 64-9.0°C
II.	Initial calibration	SW	0.0090 ± 20, r ²
III.	Calibration verification/ICV	SW	ICV/CCV = 209%
IV.	Blanks	SW	
V.	Surrogate recovery	SW	
VI.	Matrix spike/Matrix spike duplicates	N	Client Specified
VII.	Laboratory control samples	SW	LCS/D
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	SW	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 1

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	EB07-SA5B-122110 W	11	21	31	110040013A-BLK S
2	SL-159-SA5B-SS-0.0-0.5 S	12	22	32	103560021A-BLK W
3	SL-183-SA5B-SS-0.0-0.5	13	23	33	
4	SL-219-SA5B-SS-0.0-0.5	14	24	34	
5	SL-225-SA5B-SS-0.0-0.5	15	25	35	
6	SL-226-SA5B-SS-0.0-0.5	16	26	36	
7	SL-227-SA5B-SS-0.0-0.5 ✓	17	27	37	
8		18	28	38	
9		19	29	39	
10		20	30	40	

Notes:

Method: X GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%?	/			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	/			
Did the initial calibration meet the curve fit acceptance criteria?	/			
Were the RT windows properly established?	/			
IV. Continuing calibration				
What type of continuing calibration calculation was performed? <u>X</u> %D or <u> </u> %R	/			
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	/			
Were all the retention times within the acceptance windows?	/			
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/			
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	/			
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	/			
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				

Validation Area	Yes	No	NA	Findings/Comments
Were performance evaluation (PE) samples performed?		☒		
Were the performance evaluation (PE) samples within the acceptance limits?			☒	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒			
XII. System performance				
System performance was found to be acceptable.	☒			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		☒		
Target compounds were detected in the field duplicates.			☒	
XV. Field blanks				
Field blanks were identified in this SDG.	☒			
Target compounds were detected in the field blanks.		☒		

VALIDATION FINDINGS WORKSHEET

METHOD: GC HPLC

8310	8330	8151	8141	8141 (Cont)	8021B
A. Acenaphthene	A. HMX	A. 2,4-D	A. Dichlorvos	V. Fensulfothion	V. Benzene
B. Acenaphthylene	B. RDX	B. 2,4-DB	B. Mevinphos	W. Bolstar	CC. Toluene
C. Anthracene	C. 1,3,5-Trinitrobenzene	C. 2,4,5-T	C. Demeton-O	X. EPN	EE. Ethyl Benzene
D. Benzo(a)anthracene	D. 1,3-Dinitrobenzene	D. 2,4,5-TP	D. Demeton-S	Y. Azinphos-methyl	SSS. O-Xylene
E. Benzo(a)pyrene	E. Tetra	E. Dinoseb	E. Ethoprop	Z. Coumaphos	RRR. MP-Xylene
F. Benzo(b)fluoranthene	F. Nitrobenzene	F. Dichlorprop	F. Naled	AA. Parathion	GG. Total Xylene
G. Benzo(g,h,i)perylene	G. 2,4,6-Trinitrotoluene	G. Dicamba	G. Sulfotep	BB. Trichloronate	
H. Benzo(k)fluoranthene	H. 4-Amino-2,6-dinitrotoluene	H. Dalapon	H. Phorate	CC. Trichlorinate	
I. Chrysene	I. 2-Amino-4,6-dinitrotoluene	I. MCP	I. Dimethoate	DD. Trifluralin	
J. Dibenz(a,h)anthracene	J. 2,4-Dinitrotoluene	J. MCPA	J. Diazinon	EE. Def	
K. Fluoranthene	K. 2,6-Dinitrotoluene	K. Pentachlorophenol	K. Disulfoton	FF. Prowl	
L. Fluorene	L. 2-Nitrotoluene	L. 2,4,5-TP (silvex)	L. Parathion-methyl	GG. Ethion	
M. Indeno(1,2,3-cd)pyrene	M. 3-Nitrotoluene	M. Silvex	M. Ronnel	HH. Tetrachlorvinphos	
N. Naphthalene	N. 4-Nitrotoluene		N. Malathion	II. Sulprofos	
O. Phenanthrene	O.		O. Chlorpyrifos		
P. Pyrene	P.		P. Fenthion		
Q.	Q.		Q. Parathion-ethyl		
R.			R. Trichloronate		
S.			S. Merphos		
			T. Stirofos		
			U. Tokuthion		

Notes:

METHOD: ~~GC~~ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a 5 point calibration curve performed?	Y N	N/A
--	----------------	-----

Was a linear fit used for evaluation? If yes, the acceptance criteria for each compound is %RSD less than or equal to 20.0%.
N/A

Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation?	N	N/A
	0	1

Did the initial calibration meet the acceptance criteria?

Yes N/A

Level IV Only

~~Y~~ N N/A Were the retention time windows properly established for all compounds?

Y	N	N/A	Were compounds run at the required concentrations in the initial calibrations?

[illegible]

Comments:

METHOD: GC GC HPLC

2nd Reviewer: CA

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

What type of continuing calibration calculation was performed? X%D or RPD

Were continuing calibration standards analyzed at the required frequencies?

(Y) N N/A

Did the continuing calibration standards meet the %D / RPD validation criteria of <20.0%? ☐ Y ☒ N ☐ N/A

Level IV Only

Were the retention times for all calibrated compounds within their respective acceptance windows?

☒ N/A

[illegible]

BLANKSnew.wpd

Surrogate Recovery

METHOD: ☒ GC ☐ HPLC

Are surrogates required by the method? Yes ☒ or No ☐

Were surrogates spiked into all samples and blanks?

Q	A
Did all surrogate recoveries (%R) meet the QC limits?	N/A

[illegible]

METHOD: ☒ GC ☐ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A."

Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCSD) analyzed for each matrix in this SDG?

Were the LCS percent recoveries (%R) and relative percent differences (RPD) within the QC limits?

Level IV/D Only

Was an LCS analyzed every 20 samples for each matrix or whenever a sample extraction was performed?
Yes N/A

[illegible]

VALIDATION FINDINGS WORKSHEET

LDC #: 25750F5
SDG # See case

METHOD: ☒ GC ☐ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Q N N/A

④ N N/A

Y K N/A

If no, please see findings below.

[illegible]

Comments: See sample calculation verification worksheet for recalculations

LDC #: 2575075

SDG #: See Cover

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC ☒ HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C

Average CF = sum of the CF / number of standards

%RSD = $100 \cdot (SX)$

A = Area of compound

C = Concentration of compound

S = Standard deviation of the CF

X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF	%RSD	CF	%RSD	Average CF (Initial)	%RSD	Average CF (Initial)	%RSD
1	ICAC	12/23/10	A B (CLP1)	7.82	-2	7.82	-2	7.45	-2	7.45	-2
			F C	5.03	-1	5.03	-1	6.04	-1	6.04	-1
			B (CLP11)	8.45	-2	8.45	-2	7.95	-2	7.95	-2
2			C	4.46	-1	4.46	-1	5.59	-1	5.59	-1
			B (CLP1)	9.10	-2	9.10	-2	8.28	-2	8.28	-2
3	ICAC	1/6/11	C	4.84	-1	4.84	-1	6.39	-1	6.39	-1
			B (CLP2)	8.32	-2	8.32	-2	7.86	-2	7.86	-2
			C	4.67	-1	4.67	-1	5.87	-1	5.87	-1
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750P5
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC ☒ HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. CF} \cdot \text{CF}) / \text{ave. CF}$
CF = A/C

Where: ave. CF = Initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CQV Comp.	Reported		Recalculated	
					CF (Comp.) CQV	%D	CF (Comp.) CQV	%D
1	1H18357-12P	12/23/10	B (CLP1) C ↓	500.00 100.00	529.60 89.74	5.9 10.3	529.60 89.74	5.9 10.3
2			B (CLP1) C ↓	500.00 100.00	512.07 119.03	2.4 14.0	512.07 119.03	2.4 14.0
3	1H1500647R	1/7/11	B (CLP1) C ↓	401.20 40.16	366.81 42.23	8.6 5.2	366.81 42.23	8.6 5.2
4			B (CLP1) C ↓	401.20 40.16	355.89 42.29	11.3 5.3	355.89 42.29	11.3 5.3

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET

Surrogate Results Verification

METHOD: Y GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery: } SF/SS * 100$$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 4

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
DCAA	CLP11	6.67	9.143376	137	137	0

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Notes: _____

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: ~~GC~~ GC_HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$

Where: SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

SA = Spike added

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample duplicate

$$RPD = ((SSCLCS - SSCLCSD) * 2) / (SSCLCS + SSCLCSD)) * 100$$

LCS/LCSD samples: 110240013A-LCS

[illegible]

Comments: Refer to Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750FS
SDG # See below

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: L GC HPLC

☒ N N/A
☒ Y N N/A

Were all reported results recalculated and verified for all level IV samples?
Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration = $\frac{(A)(F_v)(D_f)}{(RF)(V_s \text{ or } W_s)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound
In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID: 4 Compound Name B

Concentration = $\frac{(60683)(100)(2\text{mL})}{(137520)(.0786)(605)(.776)}$

= 24 ug/kg ✓

#	Sample ID	Compound	Reported Concentrations	Recalculated Results Concentrations	Qualifications

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 21, 2010

LDC Report Date: July 12, 2011

Matrix: Soil/Water

Parameters: Wet Chemistry

Validation Level: Level IV

Laboratory, Area IV: Lancaster Laboratories

Sample Delivery Group (SDG): DE049

Sample Identification

DUP15-SA5B-QC-122110
EB07-SA5B-122110
SL-006-SA5B-SB-4.0-5.0
SL-006-SA5B-SB-5.0-6.0
SL-046-SA5B-SB-4.0-5.0
SL-046-SA5B-SB-9.0-10.0
SL-047-SA5B-SB-4.0-5.0
SL-159-SA5B-SS-0.0-0.5
SL-183-SA5B-SS-0.0-0.5
SL-219-SA5B-SS-0.0-0.5
SL-225-SA5B-SS-0.0-0.5
SL-226-SA5B-SS-0.0-0.5
SL-227-SA5B-SS-0.0-0.5
SL-046-SA5B-SB-4.0-5.0MS
SL-046-SA5B-SB-4.0-5.0DUP
SL-006-SA5B-SB-4.0-5.0MS
SL-006-SA5B-SB-4.0-5.0DUP

Introduction

This data review covers 16 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 9012B for Cyanide, EPA Method 300.0 for Nitrate and Fluoride, EPA SW 846 Method 7199 for Hexavalent Chromium, EPA Method 150.1 and EPA SW 846 Method 9045C for pH, and EPA Method 314.0 for Perchlorate.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a Laboratory, Area IV deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
EB07-SA5B-122110	Hexavalent chromium	25.5 hours	24 hours	J (all detects) UJ (all non-detects)	P

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

Sample EB07-SA5B-122110 was identified as an equipment blank. No contaminant concentrations were found in this blank with the following exceptions:

Equipment Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
EB07-SA5B-122110	12/21/10	pH	5.6 units	No associated samples in this SDG

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	%R (Limits)	Flag	A or P
SL-046-SA5B-SB-4.0-5.0MS (SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5)	Fluoride	76 (80-120)	J (all detects) UJ (all non-detects)	A

VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Sample Result Verification

All sample result verifications were acceptable

All analytes reported below the RL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE049	All analytes reported below the RL and above the MDL.	J (all detects)	A

IX. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

X. Field Duplicates

Samples DUP15-SA5B-QC-122110 and SL-046-SA5B-SB-4.0-5.0 were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD (Limits)	Flags	A or P
	DUP15-SA5B-QC-122110	SL-046-SA5B-SB-4.0-5.0			
Fluoride	2.4 mg/Kg	3.1 mg/Kg	25 (≤50)	-	-

Analyte	Concentration		RPD (Limits)	Flags	A or P
	DUP15-SA5B-QC-122110	SL-046-SA5B-SB-4.0-5.0			
pH	8.80 units	8.82 units	0 (≤50)	-	-
Hexavalent chromium	0.22U mg/Kg	0.29 mg/Kg	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Wet Chemistry - Data Qualification Summary - SDG DE049

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE029	EB07-SA5B-122110	Hexavalent chromium	J (all detects) UJ (all non-detects)	P	Technical holding times (H)
DE029	SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	Fluoride	J (all detects) UJ (all non-detects)	A	Matrix spike analysis (%R) (Q)
DE029	DUP15-SA5B-QC-122110 EB07-SA5B-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-046-SA5B-SB-4.0-5.0 SL-046-SA5B-SB-9.0-10.0 SL-047-SA5B-SB-4.0-5.0 SL-159-SA5B-SS-0.0-0.5 SL-183-SA5B-SS-0.0-0.5 SL-219-SA5B-SS-0.0-0.5 SL-225-SA5B-SS-0.0-0.5 SL-226-SA5B-SS-0.0-0.5 SL-227-SA5B-SS-0.0-0.5	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)
DE029	DUP15-SA5B-QC-122110 SL-046-SA5B-SB-4.0-5.0	Hexavalent chromium	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Wet Chemistry – Laboratory Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Wet Chemistry - Field Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

LDC #: 25750F6

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE049

Level IV

Laboratory: Lancaster Laboratories

Date: 7/5/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: (Analyte) Cyanide (EPA SW846 Method 9012B), Nitrate ~~N~~, Fluoride (EPA Method 300.0), Hexavalent Chromium (EPA SW846 Method 7199), Oxidation Reduction Potential (ASTM D1498), pH (EPA Method 150.1/EPA SW846 Method 9045C), Perchlorate (EPA 314.0)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	ASW	Sampling dates: 12/24/10
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IV.	Matrix Spike/Matrix Spike Duplicates	SW MS	
V.	Duplicates	A DUP	
VI.	Laboratory control samples	A LES/D	
VII.	Sample result verification	A	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	SW CIS	
X.	Field blanks	SW EB: 2	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil/Water

1	DUP15-SA5B-QC-122110	11	SL-225-SA5B-SS-0.0-0.5	21	PBW	31	
2	EB07-SA5B-122110	12	SL-226-SA5B-SS-0.0-0.5	22	PMS	32	
3	SL-006-SA5B-SB-4.0-5.0	13	SL-227-SA5B-SS-0.0-0.5	23		33	
4	SL-006-SA5B-SB-5.0-6.0	14	SL-046-SA5B-SB-4.0-5.0MS	24		34	
5	SL-046-SA5B-SB-4.0-5.0	15	SL-046-SA5B-SB-4.0-5.0DUP	25		35	
6	SL-046-SA5B-SB-9.0-10.0	16	13 MS	26		36	
7	SL-047-SA5B-SB-4.0-5.0	17	1 DUP	27		37	
8	SL-159-SA5B-SS-0.0-0.5	18		28		38	
9	SL-183-SA5B-SS-0.0-0.5	19		29		39	
10	SL-219-SA5B-SS-0.0-0.5	20		30		40	

Notes: _____

Method: Inorganics (EPA Method See cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. Calibration				
Were all instruments calibrated daily, each set-up time?	☒	☐	☐	
Were the proper number of standards used?	☒	☐	☐	
Were all initial calibration correlation coefficients > 0.995?	☒	☐	☐	
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	☒	☐	☐	
Were titrant checks performed as required? (Level IV only)	☐	☐	☒	
Were balance checks performed as required? (Level IV only)	☐	☐	☒	
III. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	☒	☐	☐	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	☒	☐	☐	
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL (≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were < 5X the CRDL.	☒	☐	☐	
V. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	☒	☐	☐	
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☒	☐	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	

Validation Area	Yes	No	NA	Findings/Comments
<i>VII. Sample Result Verification</i>				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
Were detection limits < RL?	☒	☐	☐	
<i>VIII. Overall assessment of data</i>				
Overall assessment of data was found to be acceptable.	☒	☐	☐	
<i>IX. Field duplicates</i>				
Field duplicate pairs were identified in this SDG.	☒	☐	☐	
Target analytes were detected in the field duplicates.	☒	☐	☐	
<i>X. Field blanks</i>				
Field blanks were identified in this SDG.	☒	☐	☐	
Target analytes were detected in the field blanks.	☒	☐	☐	

LDC #:

VALIDATION FINDINGS WORKSHEET

Technical Holding Times

Page: 1 of 1

Reviewer: OK

2nd reviewer: [Signature]

All circled dates have exceeded the technical holding time.

Y N N/A Were all samples preserved as applicable to each method?

Y N N/A Were all cooler temperatures within validation criteria?

[illegible]

Y	N	N/A	Were field blanks identified in this SDG?

	Y	N	N/A
Were target analytes detected in the field blanks?			

Blank units: pH units **Associated sample units: NA**

Sampling date: 12/21/10 Soil factor applied NA

Field blank type: (circle one) Field Blank / Rinsate / Other:

Associated Samples: None[illegible]

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:

Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

METHOD: Inorganics, Method Seal

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A

Y/N N/A

1

LEVEL IV ONLY:

Y/N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

[illegible]

Comments:

LDC# 25750F6**VALIDATION FINDINGS WORKSHEET**
Field DuplicatesPage: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]Inorganics, Method See CoverY N NA Were field duplicate pairs identified in this SDG?Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/L)		RPD (≤50)	
	<u>31</u>	<u>85</u>		
Fluoride	2.4	3.1	25	
pH (units)	8.80	8.82	0	
Hexavalent Chromium	0.22U	0.29	2 200	J/UJ/A (FD)

V:\FIELD DUPLICATES\FD_inorganic\25750F6.wpd

LDC #: 250506Validation Findings Worksheet
Initial and Continuing Calibration Calculation VerificationPage: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]Method: Inorganics, Method See CoverThe correlation coefficient (r) for the calibration of ClO₄ was recalculated. Calibration date: 12/4/10

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = $\frac{\text{Found} \times 100}{\text{True}}$ Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (ug/L)	Response	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial calibration	ClO ₄	s1	2	0.003	1.000	0.999	Y
		s2	4.00	0.01			
		s3	10.00	0.024			
		s4	25.00	0.063			
		s5	100.00	0.263			
Calibration verification	F	CCV	1.5	1.4346 1.4113	96	95	Y
Calibration verification	NO ₃ -N	↓	1.5	1.4113	94	94	Y
Calibration verification	Cl ⁻	↓	0.15	0.15840	106	106	Y

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 258078VALIDATION FINDINGS WORKSHEET
Level IV Recalculation WorksheetPage: 1 of 1
Reviewer: QR
2nd Reviewer: UMETHOD: Inorganics, Method See cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100 \quad \text{Where,} \quad \text{Found} = \text{concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found} = \text{SSR (spiked sample result)} - \text{SR (sample result).}$$
$$\text{True} = \text{concentration of each analyte in the source.}$$

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100 \quad \text{Where,} \quad S = \text{Original sample concentration}$$
$$D = \text{Duplicate sample concentration}$$

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated		Acceptable (Y/N)
					%R / RPD	%R / RPD	
LC5	Laboratory control sample	Nb5N	1.5	1.5	100	100	Y
14	Matrix spike sample	Clay	517 (SSR-SR)	495	104	104	Y
15	Duplicate sample	F	2.9	3.1	7	7	Y

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25250F6

Sample Calculation Verification

Reviewer: *CR*

2nd reviewer: _____

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Have results been reported and calculated correctly?

Are results within the calibrated range of the instruments?

Are all detection limits below the CRQL?

Compound (analyte) results for Cr6+ / F reported with a positive detect were recalculated and verified using the following equation:

Recalculation:

Recalculation: $\frac{(0.0899(84.99) - 0.899)}{(0.919)(255)} = 0.29 \text{ mg/kg}$

$$Q^B: y = 0.018x - 0.0106$$

$$F: y = 0,2060x - 0,0041$$

$$\frac{(0.052 + 0.004)(50 \text{ mL})}{(0.206)(6.883)(5.01 \text{ g})} = 3.1 \text{ mg/kg}$$

[illegible]

Note: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory
Collection Date: December 21, 2010
LDC Report Date: July 10, 2011
Matrix: Soil/Water
Parameters: Total Petroleum Hydrocarbons as Gasoline
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE049

Sample Identification

EB07-SA5B-122110
SL-006-SA5B-SB-4.0-5.0
SL-006-SA5B-SB-5.0-6.0
SL-183-SA5B-SS-0.0-0.5
TB-122110

Introduction

This data review covers 3 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Total Petroleum Hydrocarbons (TPH) as Gasoline.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for all samples were reported at 6.4°C to 9.0°C upon receipt by the laboratory.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as gasoline contaminants were found in the method blanks.

Sample TB-122110 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

Sample EB07-SA5B-122110 was identified as an equipment blank. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE049	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory

Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG DE049

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	EB07-SA5B-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-183-SA5B-SS-0.0-0.5 TB-122110	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory

Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory

Total Petroleum Hydrocarbons as Gasoline - Field Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

LDC #: 25750F7 **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE049

Level IV

Laboratory: Lancaster Laboratories

Date: 7-6-11

Page: 1 of 1

Reviewer: *[Signature]*2nd Reviewer: *[Signature]***METHOD:** GC TPH as Gasoline (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/21/10 Temp = 6.4-9.0 °C
II.	Initial calibration	A	100% RSD ≤ 20
III.	Calibration verification/ICV	A	ICV/CCV ≤ 20 %
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	Client specified
VII.	Laboratory control samples	A	LCSD
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 1 TB = 5

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	EB07-SA5B-122110 W	11		21		31	10357A31A-17Lk S
2	SL-006-SA5B-SB-4.0-5.0 S	12		22		32	10362B94A-BLK W
3	SL-006-SA5B-SB-5.0-6.0	13		23		33	
4	SL-183-SA5B-SS-0.0-0.5 ↓	14		24		34	
5	TB-122110 W	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

Method: X GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%?	/			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	/			
Did the initial calibration meet the curve fit acceptance criteria?	/			
Were the RT windows properly established?	/			
III. Continuing calibration				
What type of continuing calibration calculation was performed? <u> </u> %D or <u> </u> %R				
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	/			
Were all the retention times within the acceptance windows?	/			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/			
V. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	/			
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	/			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
VIII. Regional Quality Assurance and Quality Control				

Validation Area	Yes	No	NA	Findings/Comments
Were performance evaluation (PE) samples performed?		☒		
Were the performance evaluation (PE) samples within the acceptance limits?			☒	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒			
XII. System performance				
System performance was found to be acceptable.	☒			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		☒		
Target compounds were detected in the field duplicates.			☒	
XV. Field blanks				
Field blanks were identified in this SDG.	☒			
Target compounds were detected in the field blanks.		☒		

LDC #: 257507

SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: W
2nd Reviewer: C

METHOD: GC X HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = $100 \cdot (S/X)$
A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF / 110 (220 μ g/d)	CF / 110 (220 μ g/d)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD		
1	ICAL	11/29/10	GRO	35488	35488	37329	37329	12.7	12.7		
2	ICAL	8/10/10	GRO	30619	30619	30528	30328	9.0	9.0		
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750F7
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: AF
2nd Reviewer: CA

METHOD: GC X HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (ave.)/ CCV	Reported		Recalculated	
					CF (Comp.) CCV	%D	CF (Comp.) CCV	%D
1	34357B.0002	12/23/10	GR0	220.00	209.78	4.6	209.78	7.6
	949620B.0002	12/28/10	GR0	530.00	533.34	3.0	533.34	3.0
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results VerificationMETHOD: ☒ GC ☐ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$ Where: SF = Surrogate Found
SS = Surrogate SpikedSample ID: 4

Surrogate	Detector Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TFT	FID	648.07	518.46	80	80	0

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Notes: _____

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
Reviewer: AW
2nd Reviewer: AW

METHOD: ~~GC~~ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$

Where: SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

SA = Spike added

LCS = Laboratory Control Sample

$$RPD = (((SSCLCS - SSCLCSD) * 2) / (SSCLCS + SSCLCSD)) * 100$$

LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 10357A34A-LCS/D

[illegible]

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: ☒ GC ☐ HPLC

Y	N	N/A
Y	N	N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds within 10% of the reported results?

$$\text{Concentration} = \frac{(A)(Fv)(Df)}{(Rf)(Vs \text{ or } Ws)(\%S/100)}$$

Example:

Sample ID. ALC Compound Name GPO

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor

RF= Average response factor of the compound
In the initial calibration

V_s = initial volume of the sample

V_s = Initial volume of the sample

Ws= Initial weight of

[illegible]

Comments:

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory
Collection Date: December 21, 2010
LDC Report Date: July 10, 2011
Matrix: Soil/Water
Parameters: Total Petroleum Hydrocarbons as Extractables
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE049

Sample Identification

EB07-SA5B-122110
SL-006-SA5B-SB-4.0-5.0
SL-006-SA5B-SB-5.0-6.0
SL-183-SA5B-SS-0.0-0.5

Introduction

This data review covers 3 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for all samples were reported at 6.4°C to 9.0°C upon receipt by the laboratory.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

Sample EB07-SA5B-122110 was identified as an equipment blank. No total petroleum hydrocarbons as extractable contaminants were found in this blank.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag	A or P
EB07-SA5B-122110	o-Terphenyl	75 (77-119)	TPH as extractables	J (all detects) UJ (all non-detects)	P

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE049	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary -
SDG DE049

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	EB07-SA5B-122110	TPH as extractables	J (all detects) UJ (all non-detects)	P	Surrogate spikes (%R) (S)
DE049	EB07-SA5B-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-183-SA5B-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data
Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Field Blank Data Qualification
Summary - SDG DE049

No Sample Data Qualified in this SDG

LDC #: 25750F8

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE049

Level IV

Laboratory: Lancaster Laboratories

Date: 7-8-11

Page: 1 of 1

Reviewer: HL2nd Reviewer: A

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/2/10 Temp = 6.4-9.0 °C
II.	Initial calibration	A	9/9/SD = 20
III.	Calibration verification/ICV	A	ICV/CCV ≤ 2090
IV.	Blanks	A	
V.	Surrogate recovery	SW	
VI.	Matrix spike/Matrix spike duplicates	SWN	Client Specified
VII.	Laboratory control samples	A	US/D
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 1

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	EB07-SA5B-122110 W	11		21		31	103620026A-P2LCS
2	SL-006-SA5B-SB-4.0-5.0 S	12		22		32	103560030A-P2LCS W
3	SL-006-SA5B-SB-5.0-6.0	13		23		33	
4	SL-183-SA5B-SS-0.0-0.5	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

Method: X GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%?	/			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	/			
Did the initial calibration meet the curve fit acceptance criteria?	/			
Were the RT windows properly established?	/			
III. Continuing calibration				
What type of continuing calibration calculation was performed? ☒ %D or ☐ %R	/			
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	/			
Were all the retention times within the acceptance windows?	/			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/			
V. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	/			
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	/			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
VIII. Regional Quality Assurance and Quality Control				

Validation Area	Yes	No	NA	Findings/Comments
Were performance evaluation (PE) samples performed?		/	/	
Were the performance evaluation (PE) samples within the acceptance limits?		/	/	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	/			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		/		
Target compounds were detected in the field duplicates.		/	/	
XV. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.	/	/		

METHOD: ☒ GC ☐ HPLC

Are surrogates required by the method? Yes or No .

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were surrogates spiked into all samples and blanks?

Y	N	N/A	Did all surrogate recoveries (%R) meet the QC limits?

[illegible]

LDC #: 2575078

SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: HA
2nd Reviewer: EA

METHOD: GC X HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

- CF = A/C
average CF = $\text{sum of the CF}/\text{number of standards}$
%RSD = $100 \cdot (S/X)$
- A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	CF		Average CF		%RSD	
				Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
1	ICAL	12/24/0	C8-C40	CF (288 std)	CF (288 std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD
				13691	13691	14229	14229	4.6	4.6
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 20150108
SDG #: Sec Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC X HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. CF} \cdot \text{CF}) / \text{ave. CF}$
CF = A/C
Where: ave. CF = Initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/CCV Comp.	Reported		Recalculated	
					CF/CCV Comp.	%D	CF/CCV Comp.	%D
1	J363.02R	12/29/10	C8-C40	287.98	291.04	1.1	291.04	1.1
	J364.39R	12/31/10	C8-C40	143.99	140.70	2.3	140.70	2.3
2								
	J364.67R	12/31/10	C8-C40	239.98	236.82	1.3	236.82	1.3
3	J364.40R	1/5/11	C8-C40	143.99	143.21	0.5	143.21	0.5
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: _____

VALIDATION FINDINGS WORKSHEET **Surrogate Results Verification**

Page: 1 of 1

Reviewer: TH2nd reviewer: EMETHOD: X GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found

SS = Surrogate Spiked

Sample ID: 4

Surrogate	Detector Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Chlorobenzene	FID	1.00	0.733	73	73	0
O-Terphenyl	FID	1.00	0.733 0.923	92	92	0

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Notes: _____

LDC #: 257501-8

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]METHOD: ☒ GC ☐ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 \cdot (\text{SSC} - \text{SC}) / \text{SA}$$

Where SSC = Spiked sample concentration

SA = Spike added

SC = Sample concentration

$$\text{RPD} = (((\text{SSCLCS} - \text{SSCLCSD}) \cdot 2) / ((\text{SSCLCS} + \text{SSCLCSD}))) \cdot 100$$

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 103620026 A - LCS

Compound	Spike Added (mg/kg)		Spike Sample Concentration (mg/kg)		LCS		LCSD		Percent Recovery		LCS		Percent Recovery		LCS		Percent Recovery		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)																				
Diesel (8015)	0.84	114	0.61	412	73	73														
Benzene (8021B)																				
Methane (RSK-175)																				
2,4-D (8151)																				
Dinoseb (8151)																				
Naphthalene (8310)																				
Anthracene (8310)																				
HMX (8330)																				
2,4,6-Trinitrotoluene (8330)																				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC HPLC

Y	N	N/A
Y	N	N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds within 10% of the reported results?

$$\text{Concentration} = \frac{(A/Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$$

Example:

Sample ID. 4 Compound Name C30-C410

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor

RF= Average response factor of the compound

In the initial calibration

V_s = Initial volume of the sample

W_s = Initial weight of the sample

%S = Percent Solid

$$\text{Concentration} = \frac{(31432088)(2\text{mL})(2x)}{(6229)(809)(.842)} = 24/20 \pm 8 =$$
[illegible]

Comments:

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 21, 2010

LDC Report Date: July 10, 2011

Matrix: Soil/Water

Parameters: Explosives

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE049

Sample Identification

EB07-SA5B-122110

SL-006-SA5B-SB-4.0-5.0

SL-006-SA5B-SB-5.0-6.0

SL-183-SA5B-SS-0.0-0.5

SL-006-SA5B-SB-4.0-5.0MS

SL-006-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 5 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8330A for Explosives.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for all samples were reported at 6.4°C to 9.0°C upon receipt by the laboratory.

II. Initial Calibration

Initial calibration of compounds was performed for the primary (quantitation) column and confirmation column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at the required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Column	Compound	%D	Associated Samples	Flag	A or P
12/14/10	B	Tetryl	21.8	All samples in SDG DE049	J (all detects) UJ (all non-detects)	A

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No explosive contaminants were found in the method blanks.

Sample EB07-SA5B-122110 was identified as an equipment blank. No explosive contaminants were found in this blank with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB07-SA5B-122110	12/21/10	RDX	2.0 ug/L	SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-183-SA5B-SS-0.0-0.5

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE049	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Explosives - Data Qualification Summary - SDG DE049

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	EB07-SA5B-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-183-SA5B-SS-0.0-0.5	Tetryl	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE049	EB07-SA5B-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-183-SA5B-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Explosives - Laboratory Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Explosives - Field Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

LDC #: 25750F40 **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE049

Level IV

Laboratory: Lancaster Laboratories

Date: 7-7-11

Page: 1 of 1

Reviewer: *[Signature]*2nd Reviewer: *[Signature]***METHOD:** HPLC Explosives (EPA SW 846 Method 8330A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/21/10 Temp = 6.4-9.0 °C
II.	Initial calibration	A	%RSD = 20, r ²
III.	Calibration verification/ICV	SW	ICV/LCV = 20%
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS/D
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	A	
XIII.	Field blanks	SW	EB = 1

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	EB07-SA5B-122110	W	11		21		31	123650008A-BLK	S
2	SL-006-SA5B-SB-4.0-5.0	S	12		22		32	103610006A-BLK	W
3	SL-006-SA5B-SB-5.0-6.0		13		23		33		
4	SL-183-SA5B-SS-0.0-0.5		14		24		34		
5	SL-006-SA5B-SB-4.0-5.0	MS	15	S	25		35		
6		MSD	16	S	26		36		
7			17		27		37		
8			18		28		38		
9			19		29		39		
10			20		30		40		

Notes: _____

Method: GC X HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%?	/			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	/			
Did the initial calibration meet the curve fit acceptance criteria?	/			
Were the RT windows properly established?	/			
III. Continuing calibration				
What type of continuing calibration calculation was performed? <u>✓</u> %D or %R				
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	/	/		
Were all the retention times within the acceptance windows?	/			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/	/		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?		/		
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?		/		
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				

Validation Area	Yes	No	NA	Findings/Comments
Were performance evaluation (PE) samples performed?		☒		
Were the performance evaluation (PE) samples within the acceptance limits?			☒	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒			
XII. System performance				
System performance was found to be acceptable.	☒			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		☒		
Target compounds were detected in the field duplicates.			☒	
XV. Field blanks				
Field blanks were identified in this SDG.	☒			
Target compounds were detected in the field blanks.	☒			

VALIDATION FINDINGS WORKSHEET

METHOD: GC ~~X~~ HPLC

8310	8330	8151	8141	8141 (Con't)	8021B
A. Acenaphthene	A. HMX	A. 2,4-D	A. Dichlorvos	V. Fensulfothion	V. Benzene
B. Acenaphthylene	B. RDX	B. 2,4-DB	B. Mevinphos	W. Bolstar	CC. Toluene
C. Anthracene	C. 1,3,5-Trinitrobenzene	C. 2,4,5-T	C. Demeton-O	X. EPN	EE. Ethyl Benzene
D. Benzo(a)anthracene	D. 1,3-Dinitrobenzene	D. 2,4,5-TP	D. Demeton-S	Y. Azinphos-methyl	SSS. O-Xylene
E. Benzo(a)pyrene	E. Tetral	E. Dinoseb	E. Ethoprop	Z. Courmaphos	RRR. MP-Xylene
F. Benzo(b)fluoranthene	F. Nitrobenzene	F. Dichlorprop	F. Naled	AA. Parathion	GG. Total Xylene
G. Benzo(g,h,i)perylene	G. 2,4,6-Trinitrotoluene	G. Dicamba	G. Sulfotep	BB. Trichloronate	
H. Benzo(k)fluoranthene	H. 4-Amino-2,6-dinitrotoluene	H. Dalapon	H. Phorate	CC. Trichlorinate	
I. Chrysene	I. 2-Amino-4,6-dinitrotoluene	I. MCP	I. Dimethoate	DD. Trifluralin	
J. Dibenz(a,h)anthracene	J. 2,4-Dinitrotoluene	J. MCPA	J. Diazinon	EE. Def	
K. Fluoranthene	K. 2,6-Dinitrotoluene	K. Pentachlorophenol	K. Disulfoton	FF. Prowl	
L. Fluorene	L. 2-Nitrotoluene	L. 2,4,5-TP (silvex)	L. Parathion-methyl	GG. Ethion	
M. Indeno(1,2,3-cd)pyrene	M. 3-Nitrotoluene	M. Silvex	M. Ronnel	HH. Tetrachlorvinphos	
N. Naphthalene	N. 4-Nitrotoluene		N. Malathion	II. Sulprofos	
O. Phenanthrene	O.		O. Chlorpyrifos		
P. Pyrene	P.		P. Fenthion		
Q.	Q.		Q. Parathion-ethyl		
R.			R. Trichloronate		
S.			S. Merphos		
			T. Stirofos		
			U. Tokuthion		

Notes:

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y	N	N/A

	Y	N	N/A
Were the retention times for all calibrated compounds within their respective acceptance windows?			

CONCALNew wpd

LDC #: 25750F40
SDG # 200 C000

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: M
2nd Reviewer: S

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = $100 * (S/X)$
Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				CF (std)	CF (std)	CF (Initial)	CF (Initial)	%RSD	%RSD
1	ICAR	12/13/10	MAX PDX (ChA)	83.9	83.9	88.5	88.5	10.1	10.1
			2,4,6-TNT	188	188	194	194	3.8	3.8
			MAX (ChB)	89.6	89.6	91.6	91.6	5.4	5.4
			2,4,6-TNT	189	189	175	175	15.7	15.7
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750 F4.0
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC HPLC X

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$$
$$\text{CF} = A/C$$

Where: ave. CF = Initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Cond.	Reported		Recalculated	
					CF (Cond.) CCV	%D	CF (Cond.) CCV	%D
1	5E12347-0612	12/28/10	PDX (ORA) 24,6-TNT $\downarrow$ PDX (ORA)	493.50 500.50 493.50	467.86 483.72 503.71	5.2 3.4 2.1	467.86 483.72 503.71	5.2 3.4 2.1
2	6E12347-5A	1/5/11	24,6-TNT $\downarrow$ PDX (ORA) 24,6-TNT $\downarrow$ PDX (ORA)	500.50 493.50 500.50 493.50	539.83 477.69 494.23 484.59	7.9 3.2 1.3 1.8	539.83 477.69 494.23 484.59	7.9 3.2 1.3 1.8
3			24,6-TNT $\downarrow$	500.50	558.40	11.6	558.40	11.6
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results VerificationMETHOD: GC ☒ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$ Where: SF = Surrogate Found
SS = Surrogate SpikedSample ID: 1

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
2-NMx	A	10.00	9.252817	93	93	0

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Notes: _____

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

METHOD: GC ~~X~~HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$
$$RPD = (((SSCLCS - SSCLCSD) * 2) / (SSCLCS + SSCLCSD)) * 100$$

LCS/LCSD samples: 0365008A-LCS

Where: SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

LCS D = Laboratory Control Sample duplicate

[illegible]

Comments: Refer to Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC ~~X~~ HPLC

Q	N	N/A
Y	N	N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds within 10% of the reported results?

$$\text{Concentration} = \frac{(A)(Fv)(Df)}{(Rf)(Vs \text{ or } Ws)(\%S/100)}$$

Example:

Sample ID.
Compound Name PDX

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor

RF= Average response factor of the compound

In the Initial calibration

V_s = Initial volume of the sample

Ws= Initial weight of the sample

%S= Percent Solid

[illegible]

Comments:

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 21, 2010

LDC Report Date: July 10, 2011

Matrix: Soil/Water

Parameters: Terphenyls

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE049

Sample Identification

EB07-SA5B-122110
SL-006-SA5B-SB-4.0-5.0
SL-006-SA5B-SB-5.0-6.0
SL-183-SA5B-SS-0.0-0.5

Introduction

This data review covers 3 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Terphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for all samples were reported at 6.4°C to 9.0°C upon receipt by the laboratory.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No terphenyl contaminants were found in the method blanks.

Sample EB07-SA5B-122110 was identified as an equipment blank. No terphenyl contaminants were found in this blank.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

The QAPP reporting limits (RL) were met with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG DE049	o-Terphenyl m-Terphenyl p-Terphenyl	Laboratory reporting limit reported at 3.5 mg/Kg.	Reporting limit should be reported at 0.167 mg/Kg per the QAPP.	None None None	P

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE049	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Terphenyls - Data Qualification Summary - SDG DE049

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	EB07-SA5B-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-183-SA5B-SS-0.0-0.5	o-Terphenyl m-Terphenyl p-Terphenyl	None None None	P	Compound quantitation and CRQLs (*IX)
DE049	EB07-SA5B-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-183-SA5B-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Terphenyls - Laboratory Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Terphenyls - Field Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

LDC #: 25750F41

VALIDATION COMPLETENESS WORKSHEET

Date: 7-7-11

SDG #: DE049

Level IV

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: *[Signature]*
2nd Reviewer: *[Signature]*

METHOD: GC Terphenyls (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/21/10 Temp = 6.4-9.0°C
II.	Initial calibration	A	%RSD ≤ 2.0
III.	Calibration verification/ICV	A	CV ≤ 20%
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	Client Specified
VII.	Laboratory control samples	A	LCS ID
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	SW A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	FB = 1

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	EB07-SA5B-122110 W	11		21		31	103640012A - BLK S
2	SL-006-SA5B-SB-4.0-5.0 S	12		22		32	103560029A - BLK W
3	SL-006-SA5B-SB-5.0-6.0	13		23		33	
4	SL-183-SA5B-SS-0.0-0.5	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

Method: X GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%?	☒	☐	☐	
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	☐	☒	☐	
Did the initial calibration meet the curve fit acceptance criteria?	☐	☐	☒	
Were the RT windows properly established?	☒	☐	☐	
IV. Continuing calibration				
What type of continuing calibration calculation was performed? <u>X</u> %D or %R	☐	☐	☐	
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	☒	☐	☐	
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	☐	☐	☒	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	☐	☐	☒	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☒	☐	☐	
Was a MS/MSD analyzed every 20 samples of each matrix?	☒	☐	☐	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☐	☒	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
IX. Regional Quality Assurance and Quality Control				

Validation Area	Yes	No	NA	Findings/Comments
Were performance evaluation (PE) samples performed?		☒		
Were the performance evaluation (PE) samples within the acceptance limits?			☒	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒			
XII. System performance				
System performance was found to be acceptable.	☒			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		☒		
Target compounds were detected in the field duplicates.			☒	
XV. Field blanks				
Field blanks were identified in this SDG.	☒			
Target compounds were detected in the field blanks.		☒		

Q	A
Did the reported results for detected target compounds agree within 10.0% of the recalculated results?	N/A

[illegible]

Comments: See sample calculation verification worksheet for recalculations.

LDC #: 25750P41
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC ☒ HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

- CF = A/C
average CF = sum of the CF/number of standards
%RSD = $100 \cdot (S/X)$
- A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CF's

#	Standard ID	Calibration Date	Compound	Reported CF (16.1-2(d))	Recalculated CF (16.1-2(d))	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
1	IAE	12/22/10	0-Terphenyl	25077.21	25077.21	25182.34	25182.34	1.30	1.30
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750241
SDG #: Sec Conv.

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC ☒ HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$
Where: ave. CF = Initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/CCV Conc	Reported		Recalculated	
					CF (Conc) CCV	%D	CF (Conc) CCV	%D
1	R35674R	12/25/10	O-Terphenyl	32.28	34.05	5.5	34.05	5.5
	R36318R	1/4/11	O-Terphenyl	32.28	33.69	4.3	33.69	4.3
2	R36329R	1/5/11	O-Terphenyl	32.28	34.11	5.7	34.11	5.7
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 20141VALIDATION FINDINGS WORKSHEET
Surrogate Results VerificationPage: 1 of 1Reviewer: PM2nd reviewer: CMETHOD: X GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found

SS = Surrogate Spiked

Sample ID: 4

Surrogate	Detector Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
N-Triacontane	FID	0.33	0.294341	88	88	0

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Notes:

LDC #: 25750141

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results VerificationPage: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: XGC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 \cdot (\text{SSC} - \text{SC}) / \text{SA}$$

Where
SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

$$\text{RPD} = (((\text{SSCLCS} - \text{SSCLCSD}) \cdot 2) / (\text{SSCLCS} + \text{SSCLCSD})) \cdot 100$$

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 10364002A-LCS

Compound	Spike Added (mg/kg)		Spike Sample Concentration (mg/kg)		LCS		Percent Recovery		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)												
Diesel (8015)												
Benzene (8021B)												
Methane (RSK-175)												
2,4-D (8151)												
Dinoseb (8151)												
Naphthalene (8310)												
Anthracene (8310)												
HMX (8330)												
2,4,6-Trinitrotoluene (8330)												
O-Terphenyl	1.67	n/c	1.9	n/a	111	111						

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

$\frac{Y}{N}$	$\frac{N}{N/A}$
$\frac{Y}{N}$	$\frac{N}{N/A}$

Were all reported results recalculated and verified for all level IV samples?
Were all recalculated results for detected target compounds within 10% of the reported results?

$$\text{Concentration} = \frac{(A)(F_v)(Df)}{(Rf)(V_s \text{ or } W_s)(\%S/100)}$$

Example:

Sample ID. ALL Compound Name ALL

Concentration = _____

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound
In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

[illegible]

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 21, 2010

LDC Report Date: July 7, 2011

Matrix: Soil/Water

Parameters: Alcohols

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE049

Sample Identification

EB07-SA5B-122110

SL-006-SA5B-SB-4.0-5.0

SL-006-SA5B-SB-5.0-6.0

SL-183-SA5B-SS-0.0-0.5

Introduction

This data review covers 3 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Alcohols.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for all samples were reported at 6.4°C to 9.0°C upon receipt by the laboratory.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No alcohol contaminants were found in the method blanks.

Sample EB07-SA5B-122110 was identified as an equipment blank. No alcohol contaminants were found in this blank.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE049	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Alcohols - Data Qualification Summary - SDG DE049

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	EB07-SA5B-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-183-SA5B-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Alcohols - Laboratory Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Alcohols - Field Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

LDC #: 25750F43 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: DE049 Level IV
 Laboratory: Lancaster Laboratories

Date: 7/15/11
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC Alcohols (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	SW	Sampling dates: 12/21/10
II.	Initial calibration	A	$\% RSD \leq 20\%$
III.	Calibration verification/ICV	A	$dev/ICV \leq 20\%$
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	Client Spec
VII.	Laboratory control samples	A	UGS
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 1

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: Water + Soil

1	EB07-SA5B-122110	W	11	PBLK 18357	21		31	
2	SL-006-SA5B-SB-4.0-5.0	S	12	PBLK 14364	22		32	
3	SL-006-SA5B-SB-5.0-6.0		13		23		33	
4	SL-183-SA5B-SS-0.0-0.5		14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

Method: / GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.		/		
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%?	/			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?		/		
Did the initial calibration meet the curve fit acceptance criteria?			/	
Were the RT windows properly established?	/			
IV. Continuing calibration				
What type of continuing calibration calculation was performed? %D or %R	/			
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	/			
Were all the retention times within the acceptance windows?	/			
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			/	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			/	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/	/		
Was a MS/MSD analyzed every 20 samples of each matrix?	/	/		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/		/	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				

Validation Area	Yes	No	NA	Findings/Comments
Were performance evaluation (PE) samples performed?		☒		
Were the performance evaluation (PE) samples within the acceptance limits?			☒	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒			
XII. System performance				
System performance was found to be acceptable.	☒			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		☒		
Target compounds were detected in the field duplicates.			☒	
XV. Field blanks				
Field blanks were identified in this SDG.	☒			
Target compounds were detected in the field blanks.		☒		

LDC #: 28750 F 43

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: 

METHOD: GC / HPLC

The calibration factors (CF), average CF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

$$CF = A/C$$

average CF = sum of the CF/number of standards

$$\%RSD = 100 * (S/X)$$

Where:

A = Area of compound

C = Concentration of compound

S = Standard deviation of calibration factors

X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported (CF 5000 std)	Recalculated (CF 5000 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	12/29/2010	Methanol	2.52	2.52	2.56	2.56	5.5	5.6
	H2739B								

C	A
5000	12584.73

Conc	Methanol
1000	2.81
2500	2.55
5000	2.52
10000	2.49
20000	2.45
X=	2.56
S=	0.142

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC # 25750 Ff3VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results VerificationPage: 1 of 1
Reviewer: JVG
2nd Reviewer: [Signature]METHOD: GC / HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration percent difference (%D) values were recalculated for the compounds identified below using the following calculation:

Percent difference (%D) = $100 * (N - C) / N$

Where:

N = Initial Calibration Factor or Nominal Amount

C = Calibration Factor from Continuing Calibration Standard or Calculated Amount

#	Standard ID	Calibration Date	Compound	CCV Conc	Reported Conc	Recalculated Conc	Reported % D	Recalculated %D
1	0042	12/30/2010 14:30	Methanol	5000	5273.22	5271.45	5.5	5.4
2	0053	1/30/2010 17:12	Methanol	5000	5278.74	5276.91	5.6	5.5

CCV1			CCV2		
Compound	Height	CF	Height	CF	
Methanol	13516	2.56	13530	2.56	

LDC #: 25750 F43VALIDATION FINDINGS WORKSHEET
Surrogate Results VerificationPage: 1 of 1
Reviewer: JVZ
2nd reviewer: [Signature]METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$ Where: SF = Surrogate Found
SS = Surrogate SpikedSample ID: # 2

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Acetone	Col. B	2500	2311.9	92	92	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

METHOD: ☒ GC ☐ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 * ((SSC - SC) / SA)$

Where SSC = Spiked sample concentration
SA = Spike added

RPD = $((SSCLCS - SSCLCD) * 2) / ((SSCLCS + SSCLCD)) * 100$

LCS = Laboratory Control Sample

SC = Sample concentration

LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: LCS 14364

Compound	Spike Added (ug/kg)		Spike Sample Concentration (ug/kg)		LCS		LCSD		Percent Recovery		LCS		LCSD		Percent Recovery		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)																		
Diesel (8015)																		
Benzene (8021B)																		
Methane (RSK-175)																		
2,4-D (8151)																		
Dinoseb (8151)																		
Naphthalene (8310)																		
Anthracene (8310)																		
HMX (8330)																		
2,4,6-Trinitrotoluene (8330)																		
Methanol (8015)	25000	NA	21000	NA					84	84								

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750 F43

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: DL
2nd Reviewer: A

METHOD: GC HPLC

Y/N N/A
Y/N N/A

Were all reported results recalculated and verified for all level IV samples?
Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration = $\frac{(A)(Fv)(Df)}{(Rf)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
Rf= Average response factor of the compound
In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. # 3 Compound Name Methanol

Concentration = $\frac{(850)(5ml)}{(2.56)(10g)} = 202.7 \frac{ug}{g}$
(0.827)

#	Sample ID	Compound	Reported Concentrations	Recalculated Results Concentrations	Qualifications

Comments: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 21, 2010

LDC Report Date: July 7, 2011

Matrix: Soil/Water

Parameters: Glycols

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE049

Sample Identification

EB07-SA5B-122110
SL-006-SA5B-SB-4.0-5.0
SL-006-SA5B-SB-5.0-6.0
SL-183-SA5B-SS-0.0-0.5

Introduction

This data review covers 3 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Glycols.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Compound	Total Days From Sample Collection Until Analysis	Required Holding Time (in Days) From Sample Collection Until Analysis	Flag	A or P
EB07-SA5B-122110	All TCL compounds	27	7	J (all detects) R (all non-detects)	A

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for all samples were reported at 6.4°C to 9.0°C upon receipt by the laboratory.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No glycol contaminants were found in the method blanks.

Sample EB07-SA5B-122110 was identified as an equipment blank. No glycol contaminants were found in this blank.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE049	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Glycols - Data Qualification Summary - SDG DE049

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	EB07-SA5B-122110	All TCL compounds	J (all detects) R (all non-detects)	A	Technical holding time (H)
DE049	EB07-SA5B-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-183-SA5B-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Glycols - Laboratory Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Glycols - Field Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

LDC #: 25750F45 **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE049

Level IV

Laboratory: Lancaster Laboratories

Date: 7/05/11

Page: 1 of 1

Reviewer: SV

2nd Reviewer:

METHOD: GC Glycols (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	SW	Sampling dates: 12/21/10
II.	Initial calibration	A	σ_2 RSD $\leq 20\%$
III.	Calibration verification/ICV	A	CV/ICV $\leq 20\%$
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	Client Spec
VII.	Laboratory control samples	A	ICS
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 1

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Water + Soil

1	EB07-SA5B-122110	W	11	PB1K24017	21		31	
2	SL-006-SA5B-SB-4.0-5.0	S	12	PB1K20364	22		32	
3	SL-006-SA5B-SB-5.0-6.0		13		23		33	
4	SL-183-SA5B-SS-0.0-0.5	✓	14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/	/		
Cooler temperature criteria was met.	/	/		
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%?	/			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	/	/		
Did the initial calibration meet the curve fit acceptance criteria?	/		/	
Were the RT windows properly established?	/			
IV. Continuing calibration				
What type of continuing calibration calculation was performed? %D or %R	/			
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	/			
Were all the retention times within the acceptance windows?	/			
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			/	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			/	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.		/		
Was a MS/MSD analyzed every 20 samples of each matrix?		/		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			/	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				

Validation Area	Yes	No	NA	Findings/Comments
Were performance evaluation (PE) samples performed?		☒		
Were the performance evaluation (PE) samples within the acceptance limits?			☒	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒			
XII. System performance				
System performance was found to be acceptable.	☒			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		☒		
Target compounds were detected in the field duplicates.			☒	
XV. Field blanks				
Field blanks were identified in this SDG.		☒		
Target compounds were detected in the field blanks.		☒		

VALIDATION FINDINGS WORKSHEET

Technical Holding Times

LDC #: 25750 F45

All circled dates have exceeded the technical holding times.

Y/N N/A Were all cooler temperatures within validation criteria?

[illegible]

TECHNICAL HOLDING TIME CRITERIA

VOLATILES: Water unpreserved; Aromatic within 7 days, non-aromatic within 14 days of sample collection.

Water preserved:

Soils:

EXTRACTABLES:

Water:

LDC #: 25750 P45

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 2
Reviewer: JVG
2nd Reviewer: C

METHOD: GC / HPLC

The calibration factors (CF), average CF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = $100 * (S/X)$

Where:

- H = Height of compound
- C = Concentration of compound
- S = Standard deviation of calibration factors
- X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported (201.694 std)	Recalculated (201.694 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	12/31/2010	Ethylene glycol	200.41	200.41	204.99	204.99	3.6	3.6
	H3762A								

C	H
201.694	40422

Conc	Ethylene glycol
10.085	200.49
50.423	200.36
100.847	217.26
201.694	200.41
302.540	200.54
504.234	210.90
X=	204.99
S=	7.320

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25 750 F AS

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 2 of 2
Reviewer: JVG
2nd Reviewer: [Signature]

METHOD: GC HPLC

The calibration factors (CF), average CF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = $100 \cdot (S/X)$

Where:

- H = Height of compound
- C = Concentration of compound
- S = Standard deviation of calibration factors
- X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported (201.694 std)	Recalculated (201.694 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/17/2011	Ethylene glycol	146.85	146.85	150.17	150.17	3.5	3.5
	H3762A								

C	H
201.694	29619.6

Conc	Ethylene glycol
10.085	158.51
50.423	147.75
100.847	149.85
201.694	146.85
302.540	144.25
504.234	153.81
X=	150.17
S=	5.191

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC # 25750 #45

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [Signature]

METHOD: GC HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration percent difference (%D) values were recalculated for the compounds identified below using the following calculation:

Percent difference (%D) = $100 * (N - C) / N$

Where: N = Initial Calibration Factor or Nominal Amount
C = Calibration Factor from Continuing Calibration Standard or Calculated Amount

#	Standard ID	Calibration Date	Compound	CCV Conc	Reported Conc	Recalculated Conc	Reported % D	Recalculated %D
1	e365.21r	12/31/2010 14:30	Ethylene glycol	302.7	303.25	303.25	5.5	0.2
2	e365.32r	12/31/2010 17:12	Ethylene glycol	100.85	106.51	106.52	5.6	5.6

Compound	Height	CF
Ethylene glycol	62165	204.99
Ethylene glycol	21835	204.99

CCV1

CCV2

LDC #: 25750745VALIDATION FINDINGS WORKSHEET
Surrogate Results VerificationPage: 1 of 1
Reviewer: JVG
2nd reviewer: CMETHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$ Where: SF = Surrogate Found
SS = Surrogate SpikedSample ID: # ✓

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetramethylene Glycol	Col. A	200	172.74	86.4	86.4	1

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 25750 F45

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [Signature]

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 \cdot ((SSC - SC)/SA)$

Where SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

RPD = $((|SSCLCS - SSC|/SCSD) \cdot 2) / ((SSCLCS + SSC|/SCSD)) \cdot 100$

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: LCS 20367

Compound	Spike Added (mg/kg)		Spike Sample Concentration (mg/kg)		LCS		LCSD		Percent Recovery		LCS		Percent Recovery		LCS		Percent Recovery		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)																				
Diesel (8015)																				
Benzene (8021B)																				
Methane (RSK-175)																				
2,4-D (8151)																				
Dinoseb (8151)																				
Naphthalene (8310)																				
Anthracene (8310)																				
HMX (8330)																				
2,4,6-Trinitrotoluene (8330)																				
E, G, Y, G, Y (8015B)	199.44	NA	181.987	NA					91	91										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: 1 of 1
 Reviewer: NG
 2nd Reviewer: A

METHOD: GC HPLC

~~| | | |
|---|---|-----|
| Y | N | N/A |
| Y | N | N/A |~~

Were all reported results recalculated and verified for all level IV samples?
Were all recalculated results for detected target compounds within 10% of the reported results?

$$\text{Concentration} = \frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$$

Example:

Sample ID. _____
Compound Name AD

Concentration = _____

A= Area or height of the compound to be measured
 Fv= Final Volume of extract
 Df= Dilution Factor
 RF= Average response factor of the compound
 In the initial calibration
 Vs= Initial volume of the sample
 Ws= Initial weight of the sample
 %S= Percent Solid

[illegible]

Comments: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 21, 2010

LDC Report Date: July 10, 2011

Matrix: Soil/Water

Parameters: Formaldehyde

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE049

Sample Identification

EB07-SA5B-122110

SL-006-SA5B-SB-4.0-5.0

SL-006-SA5B-SB-5.0-6.0

SL-183-SA5B-SS-0.0-0.5

Introduction

This data review covers 3 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8315A for Formaldehyde.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. Cooler temperatures for all samples were reported at 6.4°C to 9.0°C upon receipt by the laboratory.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No formaldehyde was found in the method blanks.

Sample EB07-SA5B-122110 was identified as an equipment blank. No formaldehyde was found in this blank.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE049	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Formaldehyde - Data Qualification Summary - SDG DE049

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE049	EB07-SA5B-122110 SL-006-SA5B-SB-4.0-5.0 SL-006-SA5B-SB-5.0-6.0 SL-183-SA5B-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Formaldehyde - Laboratory Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Formaldehyde - Field Blank Data Qualification Summary - SDG DE049

No Sample Data Qualified in this SDG

LDC #: 25750F71 **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE049

Level IV

Laboratory: Lancaster Laboratories

Date: 7-7-11

Page: 1 of 1

Reviewer: *[Signature]*2nd Reviewer: *[Signature]***METHOD:** HPLC Formaldehyde (EPA SW 846 Method 8315A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/21/10 Temp = 6.4-9.0°
II.	Initial calibration	A	0% RSD $\leq$ 20
III.	Calibration verification/lev	A	CCV $\leq$ 20%
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	Client Specified
VII.	Laboratory control samples	A	LCS/D
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 1

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	EB07-SA5B-122110 W	11		21		31	10361005A - BLK S
2	SL-006-SA5B-SB-4.0-5.0 S	12		22		32	103560024A - BLK W
3	SL-006-SA5B-SB-5.0-6.0 J	13		23		33	
4	SL-183-SA5B-SS-0.0-0.5 J	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

Method: GC X HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%?	/			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?		/		
Did the initial calibration meet the curve fit acceptance criteria?			/	
Were the RT windows properly established?	/			
IV. Continuing calibration				
What type of continuing calibration calculation was performed? %D or %R	/			
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	/			
Were all the retention times within the acceptance windows?	/			
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			/	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			/	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.		/		
Was a MS/MSD analyzed every 20 samples of each matrix?		/		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			/	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				

Validation Area	Yes	No	NA	Findings/Comments
Were performance evaluation (PE) samples performed?		/		
Were the performance evaluation (PE) samples within the acceptance limits?			/	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	/			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		/		
Target compounds were detected in the field duplicates.			/	
XV. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.		/		

LDC #: 25750177

SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: M
2nd Reviewer: C

METHOD: GC HPLC X

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

- CF = A/C
average CF = sum of the CF / number of standards
%RSD = $100 \cdot (S/X)$
- A = Area of compound
C = Concentration of compound
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				(200% std)	(200% std)	CF	(Initial)	Average CF (Initial)	%RSD	Average CF (Initial)	%RSD
1	ICAC	12/23/10	Formaldehyde	57.2	57.2	57.2	60.4	60.4	3.6	60.4	3.6
2	ICAC	12/29/10	Formaldehyde	57.8	57.8	57.8	58.5	58.5	5.3	58.5	5.3
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25755 F71
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC HPLC X

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = Initial calibration average CF
CF = A/C CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV/Comp.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	IF7362-208	12/20/10	Formaldehyde	2002.00	2003.87	2003.87	0.1	0.1
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results VerificationMETHOD: GC ☒ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$

Where: SF = Surrogate Found

SS = Surrogate Spiked

Sample ID: 4

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Butyraldehyde	A	3980	3858.04	97	97	0

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Notes: _____

LDC #: 25750F7H

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
Reviewer: AF
2nd Reviewer: GAMETHOD: GC X HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$

Where SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

$$\text{RPD} = (((\text{SSCLCS} - \text{SSCLCSD}) * 2) / (\text{SSCLCS} + \text{SSCLCSD})) * 100$$

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 103610005A-LCS

Compound	Spike Added (12 kg)		Spike Sample Concentration (12 kg)		LCS		LCSD		Percent Recovery		Percent Recovery		RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)														
Diesel (8015)														
Benzene (8021B)														
Methane (RSK-175)														
2,4-D (8151)														
Dinoseb (8151)														
Naphthalene (8310)														
Anthracene (8310)														
HMX (8330)														
2,4,6-Trinitrotoluene (8330)														
Formaldehyde	5010	n/a	4982.77	n/a	99	99								

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: bf
Reviewer: ST
2nd Reviewer: C

METHOD: GC ~~HPLC~~

Y	N	N/A
Y	N	N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds within 10% of the reported results?

$$\text{Concentration} = \frac{(A)(Fv)(df)}{(Rf)(Vs \text{ or } Ws)(\%S/100)}$$

Example:

Sample ID. ALC

Compound Name

Formelbleyde

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor

RF= Average response factor of the compound

In the initial calibration

V_s = Initial volume of the sample

Ws= Initial weight of the sample

%S= Percent Solid

Concentration =

27

[illegible]

Comments:

SAMPLE DELIVERY GROUP

DE051

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	3050B	6010B	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	3050B	6020	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	3060A	7199	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	3550B	8081A	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	3550B	8082	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	3550B	8151A	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	3550B	8270C	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	3550B	8270C SIM	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	Gen Prep	9045M	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	METHOD	300.0	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	METHOD	314.0	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	METHOD	6850	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	METHOD	7471A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	3050B	6010B	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	3050B	6020	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	3060A	7199	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	3550B	8081A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	3550B	8082	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	3550B	8151A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	3550B	8270C	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	3550B	8270C SIM	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	Gen Prep	9045M	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	METHOD	300.0	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	METHOD	314.0	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	METHOD	7471A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	3050B	6010B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	3050B	6020	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	3060A	7199	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	3550B	8081A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	3550B	8082	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	3550B	8151A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	3550B	8270C	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	3550B	8270C SIM	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	METHOD	300.0	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	METHOD	314.0	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	METHOD	7471A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173169	MSD	3050B	6010B	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173169	MSD	3050B	6020	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173169	MSD	3550B	8081A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173169	MSD	3550B	8082	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173169	MSD	3550B	8151A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173169	MSD	3550B	8270C	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173169	MSD	3550B	8270C SIM	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173169	MSD	METHOD	7471A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5DUP	6173170	DUP	3050B	6010B	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5DUP	6173170	DUP	3050B	6020	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5DUP	6173170	DUP	3060A	7199	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5DUP	6173170	DUP	Gen Prep	9045M	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5DUP	6173170	DUP	METHOD	300.0	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5DUP	6173170	DUP	METHOD	314.0	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5DUP	6173170	DUP	METHOD	7471A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5DUP	P173167D271322B	DUP	METHOD	300.0	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	P173167R271336B	MS	METHOD	300.0	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	3050B	6010B	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	3050B	6020	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	3060A	7199	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	3550B	8081A	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	3550B	8082	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	3550B	8151A	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	3550B	8270C	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	3550B	8270C SIM	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	Gen Prep	9045M	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	METHOD	300.0	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	METHOD	314.0	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	METHOD	7471A	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3050B	6010B	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3050B	6020	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3060A	7199	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3546	1625C	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3550B	8015B	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3550B	8015M	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3550B	8081A	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3550B	8082	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3550B	8151A	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3550B	8270C	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3550B	8270C SIM	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	5035	8015M	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	5035	8260B	III

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MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	5035	8260B SIM	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	8330	8330A	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	Gen Prep	9045M	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	METHOD	300.0	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	METHOD	314.0	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	METHOD	7471A	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	METHOD	8015B	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	METHOD	8015M	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	METHOD	8315A	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	METHOD	9012B	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5DUP	P173166D271131A	DUP	METHOD	314.0	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5MS	P173166R271154A	MS	METHOD	314.0	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3050B	6010B	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3050B	6020	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3060A	7199	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3546	1625C	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3550B	8015B	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3550B	8015M	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3550B	8081A	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3550B	8082	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3550B	8151A	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3550B	8270C	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3550B	8270C SIM	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	5035	8015M	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	5035	8260B	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	5035	8260B SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	8330	8330A	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	Gen Prep	9045M	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	METHOD	300.0	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	METHOD	314.0	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	METHOD	7471A	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	METHOD	8015B	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	METHOD	8015M	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	METHOD	8315A	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	METHOD	9012B	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5MSD	P173171M322217A	MSD	METHOD	8015M	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5MSD	P173171M322347A	MSD	METHOD	8015B	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5MS	P173171R322201A	MS	METHOD	8015M	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5MS	P173171R322332A	MS	METHOD	8015B	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3050B	6010B	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3050B	6020	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3060A	7199	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3546	1625C	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3550B	8015B	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3550B	8015M	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3550B	8081A	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3550B	8082	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3550B	8151A	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3550B	8270C	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3550B	8270C SIM	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	5035	8015M	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	5035	8260B	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	5035	8260B SIM	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	8330	8330A	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	Gen Prep	9045M	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	METHOD	300.0	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	METHOD	314.0	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	METHOD	7471A	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	METHOD	8015B	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	METHOD	8015M	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	METHOD	8315A	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	METHOD	9012B	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5DUP	P173165D271905A	DUP	METHOD	9012B	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5MS	P173165R211839A	MS	5035	8260B	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5MS	P173165R271906A	MS	METHOD	9012B	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	3050B	6010B	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	3050B	6020	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	3060A	7199	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	3550B	8081A	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	3550B	8082	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	3550B	8151A	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	3550B	8270C	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	3550B	8270C SIM	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	Gen Prep	9045M	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	METHOD	300.0	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	METHOD	314.0	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	METHOD	7471A	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	3050B	6020	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	3060A	7199	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	3550B	8081A	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	3550B	8082	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	3550B	8151A	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	3550B	8270C	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	3550B	8270C SIM	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	Gen Prep	9045M	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	METHOD	300.0	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	METHOD	314.0	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	METHOD	7471A	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	3050B	6010B	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	3050B	6020	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	3060A	7199	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	3550B	8081A	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	3550B	8082	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	3550B	8151A	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	3550B	8270C	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	3550B	8270C SIM	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	Gen Prep	9045M	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	METHOD	300.0	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	METHOD	314.0	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	METHOD	7471A	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	3050B	6010B	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	3050B	6020	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	3060A	7199	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	3550B	8082	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	3550B	8270C	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	3550B	8270C SIM	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	5035	8260B	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	5035	8260B SIM	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	Gen Prep	9045M	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	METHOD	300.0	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	METHOD	314.0	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	METHOD	7471A	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	3050B	6010B	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	3050B	6020	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	3060A	7199	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	3550B	8082	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	3550B	8270C	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	3550B	8270C SIM	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	Gen Prep	9045M	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	METHOD	300.0	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	METHOD	314.0	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	METHOD	7471A	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	3005A	6010B	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	3020A	6020	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	3510C	8081A	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	3510C	8082	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	3510C	8270C	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	3510C	8270C SIM	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	Gen Prep	300.0	III

III = EPA Level 3 Data Review

N = Normal Sample

TB = Trip Blank

MS = Matrix Spike

IV = EPA Level 4 Data Validation

FD = Field Duplicate

FB = Field Blank

MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	EB08-SA5B-122210	6173161	EB	Gen Prep	314.0	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	Gen Prep	7199	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	METHOD	7470A	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	METHOD	8151A	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	3050B	6010B	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	3050B	6020	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	3060A	7199	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	3550B	8082	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	3550B	8270C	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	3550B	8270C SIM	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	5035	8260B	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	5035	8260B SIM	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	Gen Prep	9045M	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	METHOD	300.0	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	METHOD	314.0	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	METHOD	6850	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	METHOD	7471A	III
22-Dec-2010	TB-122210	6173178	TB	5030B	8015M	III
22-Dec-2010	TB-122210	6173178	TB	5030B	8260B	III
22-Dec-2010	TB-122210	6173178	TB	5030B	8260B SIM	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3005A	6010B	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3020A	6020	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3510C	8015B	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3510C	8015M	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3510C	8081A	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3510C	8082	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3510C	8270C	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3510C	8270C SIM	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3520C	1625C	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	5030B	8015M	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	5030B	8260B	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	5030B	8260B SIM	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	8330	8330A	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	Gen Prep	300.0	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	Gen Prep	314.0	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	Gen Prep	7199	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	Gen Prep	8015B	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	Gen Prep	8015M	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	METHOD	7470A	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	METHOD	8151A	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	METHOD	8315A	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	METHOD	9012B	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3050B	6010B	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3050B	6020	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3060A	7199	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3546	1625C	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3550B	8015B	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3550B	8015M	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3550B	8082	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3550B	8270C	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3550B	8270C SIM	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	5035	8015M	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	5035	8260B	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	5035	8260B SIM	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	8330	8330A	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	Gen Prep	9045M	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	METHOD	300.0	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	METHOD	314.0	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	METHOD	7471A	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	METHOD	8015B	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	METHOD	8015M	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	METHOD	8315A	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	METHOD	9012B	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0DUP	P173177D291230B	DUP	Gen Prep	9045M	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-024-SA5B-SS-0.0-0.5

Collected: 12/22/2010 10:01:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.4		1.0	MDL	1.3	PQL	mg/Kg	J	Q

Sample ID: SL-100-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:02:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-102-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:36:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-114-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		1.0	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-118-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-145-SA5B-SB-4.0-5.0

Collected: 12/22/2010 2:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.92	U	0.92	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-157-SA5B-SB-4.0-5.0

Collected: 12/22/2010 10:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA5B-SB-9.0-10.0

Collected: 12/22/2010 10:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.1		0.89	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM
Method:	300.0
Matrix:	SO

Sample ID: SL-158-SA5B-SB-4.0-5.0

Collected: 12/22/2010 12:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS
Method:	6010B
Matrix:	AQ

Sample ID: EB08-SA5B-122210

Collected: 12/22/2010 11:45:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	0.0640	J	0.0522	MDL	0.200	PQL	mg/L	J	Z

Method Category:	METALS
Method:	6010B
Matrix:	SO

Sample ID: DUP10-SA5B-QC-122210

Collected: 12/22/2010 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.36	J	1.00	MDL	5.62	PQL	mg/Kg	J	Z
CALCIUM	3070		6.90	MDL	22.5	PQL	mg/Kg	J	E, FD
IRON	18600		5.30	MDL	22.5	PQL	mg/Kg	J	E
MAGNESIUM	4260		2.86	MDL	11.2	PQL	mg/Kg	J	E
PHOSPHORUS	361		0.630	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	2800		20.2	MDL	56.2	PQL	mg/Kg	J	Q
SODIUM	92.3	J	42.0	MDL	112	PQL	mg/Kg	J	Z
STRONTIUM	18.7		0.0697	MDL	0.562	PQL	mg/Kg	J	E
TIN	2.22	J	1.12	MDL	11.2	PQL	mg/Kg	J	Z
Zirconium	1.88	J	0.945	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SED-010-SIV-SD-0.0-0.5

Collected: 12/22/2010 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4260		7.27	MDL	23.7	PQL	mg/Kg	J	E
IRON	15400		5.58	MDL	23.7	PQL	mg/Kg	J	E
MAGNESIUM	3720		3.01	MDL	11.9	PQL	mg/Kg	J	E
PHOSPHORUS	378		0.664	MDL	11.9	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/23/2011 10:39:31 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SED-010-SIV-SD-0.0-0.5

Collected: 12/22/2010 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2890		21.3	MDL	59.3	PQL	mg/Kg	J	Q
SODIUM	56.7	J	44.2	MDL	119	PQL	mg/Kg	J	Z
STRONTIUM	13.2		0.0735	MDL	0.593	PQL	mg/Kg	J	E
TIN	2.40	J	1.19	MDL	11.9	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5B-SS-0.0-0.5

Collected: 12/22/2010 10:01:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.85	J	1.07	MDL	6.02	PQL	mg/Kg	J	Z
CALCIUM	4630		7.39	MDL	24.1	PQL	mg/Kg	J	E
IRON	20000		5.68	MDL	24.1	PQL	mg/Kg	J	E
MAGNESIUM	4210		3.06	MDL	12.0	PQL	mg/Kg	J	E
PHOSPHORUS	362		0.675	MDL	12.0	PQL	mg/Kg	J	Q
POTASSIUM	2720		21.7	MDL	60.2	PQL	mg/Kg	J	Q
SODIUM	104	J	44.9	MDL	120	PQL	mg/Kg	J	Z
STRONTIUM	23.2		0.0747	MDL	0.602	PQL	mg/Kg	J	E
TIN	2.26	J	1.20	MDL	12.0	PQL	mg/Kg	J	Z
Zirconium	2.14	J	1.01	MDL	6.02	PQL	mg/Kg	J	Z

Sample ID: SL-100-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:02:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.13	J	1.01	MDL	5.69	PQL	mg/Kg	J	Z
CALCIUM	5190		6.98	MDL	22.8	PQL	mg/Kg	J	E, FD
IRON	21000		5.36	MDL	22.8	PQL	mg/Kg	J	E
MAGNESIUM	4940		2.89	MDL	11.4	PQL	mg/Kg	J	E
PHOSPHORUS	423		0.638	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	3050		20.5	MDL	56.9	PQL	mg/Kg	J	Q
SODIUM	95.5	J	42.5	MDL	114	PQL	mg/Kg	J	Z
STRONTIUM	25.6		0.0706	MDL	0.569	PQL	mg/Kg	J	E
TIN	2.26	J	1.14	MDL	11.4	PQL	mg/Kg	J	Z
Zirconium	3.01	J	0.956	MDL	5.69	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS
Method:	6010B
Matrix:	SO

Sample ID: SL-101-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.41	J	1.01	MDL	5.66	PQL	mg/Kg	J	Z
CALCIUM	3030		6.94	MDL	22.7	PQL	mg/Kg	J	E
IRON	25400		5.33	MDL	22.7	PQL	mg/Kg	J	E
MAGNESIUM	4660		2.88	MDL	11.3	PQL	mg/Kg	J	E
PHOSPHORUS	256		0.634	MDL	11.3	PQL	mg/Kg	J	Q
POTASSIUM	3240		20.4	MDL	56.6	PQL	mg/Kg	J	Q
STRONTIUM	28.5		0.0702	MDL	0.566	PQL	mg/Kg	J	E
TIN	2.50	J	1.13	MDL	11.3	PQL	mg/Kg	J	Z
Zirconium	2.40	J	0.951	MDL	5.66	PQL	mg/Kg	J	Z

Sample ID: SL-102-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:36:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.70	J	0.967	MDL	5.43	PQL	mg/Kg	J	Z
CALCIUM	4940		6.66	MDL	21.7	PQL	mg/Kg	J	E
IRON	21000		5.12	MDL	21.7	PQL	mg/Kg	J	E
MAGNESIUM	4600		2.76	MDL	10.9	PQL	mg/Kg	J	E
PHOSPHORUS	344		0.608	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	3290		19.6	MDL	54.3	PQL	mg/Kg	J	Q
STRONTIUM	24.5		0.0674	MDL	0.543	PQL	mg/Kg	J	E
TIN	2.27	J	1.09	MDL	10.9	PQL	mg/Kg	J	Z
Zirconium	2.04	J	0.913	MDL	5.43	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	27500		7.64	MDL	24.9	PQL	mg/Kg	J	E
IRON	22700		5.87	MDL	24.9	PQL	mg/Kg	J	E
MAGNESIUM	6260		3.17	MDL	12.5	PQL	mg/Kg	J	E
PHOSPHORUS	534		0.698	MDL	12.5	PQL	mg/Kg	J	Q
POTASSIUM	4650		22.4	MDL	62.3	PQL	mg/Kg	J	Q
STRONTIUM	58.9		0.0773	MDL	0.623	PQL	mg/Kg	J	E
TIN	2.21	J	1.25	MDL	12.5	PQL	mg/Kg	J	Z
Zirconium	1.94	J	1.05	MDL	6.23	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/23/2011 10:39:31 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-117-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:25:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	71800		37.7	MDL	123	PQL	mg/Kg	J	E

Sample ID: SL-117-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	28500		5.79	MDL	24.6	PQL	mg/Kg	J	E
MAGNESIUM	7560		3.12	MDL	12.3	PQL	mg/Kg	J	E
PHOSPHORUS	640		0.688	MDL	12.3	PQL	mg/Kg	J	Q
POTASSIUM	5740		22.1	MDL	61.4	PQL	mg/Kg	J	Q
STRONTIUM	114		0.0762	MDL	0.614	PQL	mg/Kg	J	E
TIN	2.05	J	1.23	MDL	12.3	PQL	mg/Kg	J	Z
Zirconium	2.97	J	1.03	MDL	6.14	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.79	J	1.04	MDL	5.84	PQL	mg/Kg	J	Z
CALCIUM	22300		7.16	MDL	23.4	PQL	mg/Kg	J	E
IRON	12400		5.50	MDL	23.4	PQL	mg/Kg	J	E
MAGNESIUM	3230		2.97	MDL	11.7	PQL	mg/Kg	J	E
PHOSPHORUS	391		0.654	MDL	11.7	PQL	mg/Kg	J	Q
POTASSIUM	2470		21.0	MDL	58.4	PQL	mg/Kg	J	Q
SODIUM	72.7	J	43.6	MDL	117	PQL	mg/Kg	J	Z
STRONTIUM	46.2		0.0724	MDL	0.584	PQL	mg/Kg	J	E
TIN	1.61	J	1.17	MDL	11.7	PQL	mg/Kg	J	Z
Zirconium	1.94	J	0.981	MDL	5.84	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA5B-SB-4.0-5.0

Collected: 12/22/2010 2:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2780		6.68	MDL	21.8	PQL	mg/Kg	J	E
IRON	23900		5.13	MDL	21.8	PQL	mg/Kg	J	E
MAGNESIUM	4170		2.77	MDL	10.9	PQL	mg/Kg	J	E
PHOSPHORUS	246		0.610	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	2180		19.6	MDL	54.5	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-145-SA5B-SB-4.0-5.0

Collected: 12/22/2010 2:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
STRONTIUM	25.8		0.0676	MDL	0.545	PQL	mg/Kg	J	E
TIN	1.77	J	1.09	MDL	10.9	PQL	mg/Kg	J	Z
Zirconium	2.17	J	0.915	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5B-SB-4.0-5.0

Collected: 12/22/2010 10:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.70	J	0.930	MDL	5.23	PQL	mg/Kg	J	Z
CALCIUM	2180		6.41	MDL	20.9	PQL	mg/Kg	J	E
IRON	19000		4.92	MDL	20.9	PQL	mg/Kg	J	E
MAGNESIUM	4010		2.66	MDL	10.5	PQL	mg/Kg	J	E
PHOSPHORUS	391		0.585	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	2800		18.8	MDL	52.3	PQL	mg/Kg	J	Q
STRONTIUM	14.9		0.0648	MDL	0.523	PQL	mg/Kg	J	E
TIN	2.24	J	1.05	MDL	10.5	PQL	mg/Kg	J	Z
Zirconium	1.84	J	0.878	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5B-SB-9.0-10.0

Collected: 12/22/2010 10:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.90	J	0.982	MDL	5.52	PQL	mg/Kg	J	Z
CALCIUM	2050		6.77	MDL	22.1	PQL	mg/Kg	J	E
IRON	17900		5.20	MDL	22.1	PQL	mg/Kg	J	E
MAGNESIUM	3380		2.80	MDL	11.0	PQL	mg/Kg	J	E
PHOSPHORUS	246		0.618	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	2390		19.9	MDL	55.2	PQL	mg/Kg	J	Q
SODIUM	96.7	J	41.2	MDL	110	PQL	mg/Kg	J	Z
STRONTIUM	19.5		0.0684	MDL	0.552	PQL	mg/Kg	J	E
TIN	2.36	J	1.10	MDL	11.0	PQL	mg/Kg	J	Z
Zirconium	2.05	J	0.927	MDL	5.52	PQL	mg/Kg	J	Z

Sample ID: SL-158-SA5B-SB-4.0-5.0

Collected: 12/22/2010 12:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.92	J	0.987	MDL	5.54	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-158-SA5B-SB-4.0-5.0

Collected: 12/22/2010 12:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1970		6.80	MDL	22.2	PQL	mg/Kg	J	E
IRON	18700		5.22	MDL	22.2	PQL	mg/Kg	J	E
MAGNESIUM	3790		2.82	MDL	11.1	PQL	mg/Kg	J	E
PHOSPHORUS	397		0.621	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	3350		20.0	MDL	55.4	PQL	mg/Kg	J	Q
STRONTIUM	15.6		0.0687	MDL	0.554	PQL	mg/Kg	J	E
TIN	2.35	J	1.11	MDL	11.1	PQL	mg/Kg	J	Z
Zirconium	2.09	J	0.931	MDL	5.54	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: AQ

Sample ID: EB08-SA5B-122210

Collected: 12/22/2010 11:45:00

Analysis Type: REA5

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000055	J	0.00005 2	MDL	0.0010	PQL	mg/L	U	B

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP10-SA5B-QC-122210

Collected: 12/22/2010 9:05:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0463	MDL	0.463	PQL	mg/Kg	U	B

Sample ID: DUP10-SA5B-QC-122210

Collected: 12/22/2010 9:05:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	98.1		0.125	MDL	0.463	PQL	mg/Kg	J	A

Sample ID: DUP10-SA5B-QC-122210

Collected: 12/22/2010 9:05:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.2		0.0735	MDL	0.446	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP10-SA5B-QC-122210

Collected: 12/22/2010 9:05:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	39.4		0.0245	MDL	0.111	PQL	mg/Kg	J	E

Sample ID: DUP10-SA5B-QC-122210

Collected: 12/22/2010 9:05:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0960	J	0.0695	MDL	0.232	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.90		0.0695	MDL	0.463	PQL	mg/Kg	J	Q, E, E
CHROMIUM	16.6		0.139	MDL	0.463	PQL	mg/Kg	J	A
COBALT	5.52		0.0232	MDL	0.116	PQL	mg/Kg	J	A
SILVER	0.0302	J	0.0139	MDL	0.116	PQL	mg/Kg	J	Z

Sample ID: SED-010-SIV-SD-0.0-0.5

Collected: 12/22/2010 10:10:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.137	J	0.0465	MDL	0.465	PQL	mg/Kg	U	B

Sample ID: SED-010-SIV-SD-0.0-0.5

Collected: 12/22/2010 10:10:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	72.5		0.126	MDL	0.465	PQL	mg/Kg	J	A

Sample ID: SED-010-SIV-SD-0.0-0.5

Collected: 12/22/2010 10:10:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	5.42		0.0775	MDL	0.470	PQL	mg/Kg	J	E
VANADIUM	23.9		0.0258	MDL	0.117	PQL	mg/Kg	J	E

Sample ID: SED-010-SIV-SD-0.0-0.5

Collected: 12/22/2010 10:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0698	U	0.0698	MDL	0.233	PQL	mg/Kg	UJ	Q
ARSENIC	9.04		0.0698	MDL	0.465	PQL	mg/Kg	J	Q, E, E
CHROMIUM	11.8		0.140	MDL	0.465	PQL	mg/Kg	J	A
COBALT	4.17		0.0233	MDL	0.116	PQL	mg/Kg	J	A
SILVER	0.0232	J	0.0140	MDL	0.116	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-024-SA5B-SS-0.0-0.5

Collected: 12/22/2010 10:01:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.152	J	0.0501	MDL	0.501	PQL	mg/Kg	U	B

Sample ID: SL-024-SA5B-SS-0.0-0.5

Collected: 12/22/2010 10:01:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	94.8		0.135	MDL	0.501	PQL	mg/Kg	J	A

Sample ID: SL-024-SA5B-SS-0.0-0.5

Collected: 12/22/2010 10:01:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	7.76		0.0795	MDL	0.482	PQL	mg/Kg	J	E
VANADIUM	35.8		0.0265	MDL	0.120	PQL	mg/Kg	J	E

Sample ID: SL-024-SA5B-SS-0.0-0.5

Collected: 12/22/2010 10:01:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0752	U	0.0752	MDL	0.251	PQL	mg/Kg	UJ	Q
ARSENIC	5.86		0.0752	MDL	0.501	PQL	mg/Kg	J	Q, E, E
CHROMIUM	19.8		0.150	MDL	0.501	PQL	mg/Kg	J	A
COBALT	6.01		0.0251	MDL	0.125	PQL	mg/Kg	J	A
SILVER	0.0342	J	0.0150	MDL	0.125	PQL	mg/Kg	J	Z

Sample ID: SL-100-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:02:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0455	MDL	0.455	PQL	mg/Kg	U	B

Sample ID: SL-100-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:02:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	102		0.123	MDL	0.455	PQL	mg/Kg	J	A

Sample ID: SL-100-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:02:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	13.5		0.0767	MDL	0.465	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS
Method:	6020
Matrix:	SO

Sample ID: SL-100-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:02:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	48.4		0.0256	MDL	0.116	PQL	mg/Kg	J	E

Sample ID: SL-100-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:02:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.120	J	0.0683	MDL	0.228	PQL	mg/Kg	UJ	Q, B
ARSENIC	3.21		0.0683	MDL	0.455	PQL	mg/Kg	J	Q, E, E
CHROMIUM	14.9		0.137	MDL	0.455	PQL	mg/Kg	J	A
COBALT	5.29		0.0228	MDL	0.114	PQL	mg/Kg	J	A
SILVER	0.0305	J	0.0137	MDL	0.114	PQL	mg/Kg	J	Z

Sample ID: SL-101-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:00:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.210	J	0.0453	MDL	0.453	PQL	mg/Kg	J	Z

Sample ID: SL-101-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:00:00

Analysis Type: REA4

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	196		0.306	MDL	1.13	PQL	mg/Kg	J	A

Sample ID: SL-101-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:00:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	13.2		0.0770	MDL	0.466	PQL	mg/Kg	J	E
VANADIUM	46.6		0.0257	MDL	0.117	PQL	mg/Kg	J	E

Sample ID: SL-101-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0982	J	0.0680	MDL	0.227	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.58		0.0680	MDL	0.453	PQL	mg/Kg	J	Q, E, E
CHROMIUM	25.8		0.136	MDL	0.453	PQL	mg/Kg	J	A
COBALT	13.3		0.0227	MDL	0.113	PQL	mg/Kg	J	A
SILVER	0.0532	J	0.0136	MDL	0.113	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-102-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:36:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.195	J	0.0443	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-102-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:36:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	108		0.120	MDL	0.443	PQL	mg/Kg	J	A

Sample ID: SL-102-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:36:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	14.5		0.0738	MDL	0.448	PQL	mg/Kg	J	E
VANADIUM	50.9		0.0246	MDL	0.112	PQL	mg/Kg	J	E

Sample ID: SL-102-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:36:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.134	J	0.0665	MDL	0.222	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.55		0.0665	MDL	0.443	PQL	mg/Kg	J	Q, E, E
CHROMIUM	30.9		0.133	MDL	0.443	PQL	mg/Kg	J	A
COBALT	7.79		0.0222	MDL	0.111	PQL	mg/Kg	J	A
SILVER	0.0333	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:22:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.188	J	0.0494	MDL	0.494	PQL	mg/Kg	U	B

Sample ID: SL-114-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:22:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.133	MDL	0.494	PQL	mg/Kg	J	A

Sample ID: SL-114-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:22:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	13.6		0.0784	MDL	0.475	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS
Method:	6020
Matrix:	SO

Sample ID: SL-114-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:22:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	56.9		0.0261	MDL	0.119	PQL	mg/Kg	J	E

Sample ID: SL-114-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:22:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0895	J	0.0741	MDL	0.247	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.93		0.0741	MDL	0.494	PQL	mg/Kg	J	Q, E, E
CHROMIUM	23.6		0.148	MDL	0.494	PQL	mg/Kg	J	A
COBALT	7.12		0.0247	MDL	0.123	PQL	mg/Kg	J	A
SILVER	0.0289	J	0.0148	MDL	0.123	PQL	mg/Kg	J	Z

Sample ID: SL-117-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.296	J	0.0496	MDL	0.496	PQL	mg/Kg	J	Z

Sample ID: SL-117-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:25:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	115		0.134	MDL	0.496	PQL	mg/Kg	J	A

Sample ID: SL-117-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:25:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	13.6		0.0819	MDL	0.496	PQL	mg/Kg	J	E
VANADIUM	60.6		0.0273	MDL	0.124	PQL	mg/Kg	J	E

Sample ID: SL-117-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.189	J	0.0744	MDL	0.248	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.75		0.0744	MDL	0.496	PQL	mg/Kg	J	Q, E, E
CHROMIUM	31.5		0.149	MDL	0.496	PQL	mg/Kg	J	A
COBALT	8.52		0.0248	MDL	0.124	PQL	mg/Kg	J	A
SILVER	0.0309	J	0.0149	MDL	0.124	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS
Method:	6020
Matrix:	SO

Sample ID: SL-118-SA5B-SS-0.0-0.5			Collected: 12/22/2010 9:10:00		Analysis Type: REA2			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.265	J	0.0458	MDL	0.458	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA5B-SS-0.0-0.5			Collected: 12/22/2010 9:10:00		Analysis Type: REA4			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	122		0.124	MDL	0.458	PQL	mg/Kg	J	A

Sample ID: SL-118-SA5B-SS-0.0-0.5			Collected: 12/22/2010 9:10:00		Analysis Type: REA9			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	12.9		0.0771	MDL	0.467	PQL	mg/Kg	J	E
VANADIUM	54.1		0.0257	MDL	0.117	PQL	mg/Kg	J	E

Sample ID: SL-118-SA5B-SS-0.0-0.5			Collected: 12/22/2010 9:10:00		Analysis Type: RES			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.128	J	0.0687	MDL	0.229	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.18		0.0687	MDL	0.458	PQL	mg/Kg	J	Q, E, E
CHROMIUM	28.6		0.137	MDL	0.458	PQL	mg/Kg	J	A
COBALT	8.64		0.0229	MDL	0.114	PQL	mg/Kg	J	A
SILVER	0.0300	J	0.0137	MDL	0.114	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA5B-SB-4.0-5.0			Collected: 12/22/2010 2:54:00		Analysis Type: REA2			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.163	J	0.0453	MDL	0.453	PQL	mg/Kg	U	B

Sample ID: SL-145-SA5B-SB-4.0-5.0			Collected: 12/22/2010 2:54:00		Analysis Type: REA4			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	125		0.122	MDL	0.453	PQL	mg/Kg	J	A

Sample ID: SL-145-SA5B-SB-4.0-5.0			Collected: 12/22/2010 2:54:00		Analysis Type: REA9			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	12.0		0.0748	MDL	0.453	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	METALS
Method:	6020
Matrix:	SO

Sample ID: SL-145-SA5B-SB-4.0-5.0

Collected: 12/22/2010 2:54:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	52.1		0.0249	MDL	0.113	PQL	mg/Kg	J	E

Sample ID: SL-145-SA5B-SB-4.0-5.0

Collected: 12/22/2010 2:54:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.103	J	0.0680	MDL	0.227	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.98		0.0680	MDL	0.453	PQL	mg/Kg	J	Q, E, E
CHROMIUM	24.0		0.136	MDL	0.453	PQL	mg/Kg	J	A
COBALT	5.32		0.0227	MDL	0.113	PQL	mg/Kg	J	A
SILVER	0.0394	J	0.0136	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5B-SB-4.0-5.0

Collected: 12/22/2010 10:48:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.146	J	0.0426	MDL	0.426	PQL	mg/Kg	U	B

Sample ID: SL-157-SA5B-SB-4.0-5.0

Collected: 12/22/2010 10:48:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	89.8		0.115	MDL	0.426	PQL	mg/Kg	J	A

Sample ID: SL-157-SA5B-SB-4.0-5.0

Collected: 12/22/2010 10:48:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	9.36		0.0697	MDL	0.422	PQL	mg/Kg	J	E
VANADIUM	41.5		0.0232	MDL	0.106	PQL	mg/Kg	J	E

Sample ID: SL-157-SA5B-SB-4.0-5.0

Collected: 12/22/2010 10:48:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0639	U	0.0639	MDL	0.213	PQL	mg/Kg	UJ	Q
ARSENIC	4.63		0.0639	MDL	0.426	PQL	mg/Kg	J	Q, E, E
CHROMIUM	17.8		0.128	MDL	0.426	PQL	mg/Kg	J	A
COBALT	5.81		0.0213	MDL	0.107	PQL	mg/Kg	J	A
SILVER	0.0237	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-157-SA5B-SB-9.0-10.0

Collected: 12/22/2010 10:52:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.104	J	0.0429	MDL	0.429	PQL	mg/Kg	U	B

Sample ID: SL-157-SA5B-SB-9.0-10.0

Collected: 12/22/2010 10:52:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.116	MDL	0.429	PQL	mg/Kg	J	A

Sample ID: SL-157-SA5B-SB-9.0-10.0

Collected: 12/22/2010 10:52:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.5		0.0729	MDL	0.442	PQL	mg/Kg	J	E
VANADIUM	43.5		0.0243	MDL	0.110	PQL	mg/Kg	J	E

Sample ID: SL-157-SA5B-SB-9.0-10.0

Collected: 12/22/2010 10:52:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0651	J	0.0643	MDL	0.214	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.63		0.0643	MDL	0.429	PQL	mg/Kg	J	Q, E, E
CHROMIUM	20.2		0.129	MDL	0.429	PQL	mg/Kg	J	A
COBALT	7.28		0.0214	MDL	0.107	PQL	mg/Kg	J	A
SILVER	0.0339	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-158-SA5B-SB-4.0-5.0

Collected: 12/22/2010 12:09:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.162	J	0.0439	MDL	0.439	PQL	mg/Kg	U	B

Sample ID: SL-158-SA5B-SB-4.0-5.0

Collected: 12/22/2010 12:09:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.7		0.119	MDL	0.439	PQL	mg/Kg	J	A

Sample ID: SL-158-SA5B-SB-4.0-5.0

Collected: 12/22/2010 12:09:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.1		0.0724	MDL	0.439	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-158-SA5B-SB-4.0-5.0

Collected: 12/22/2010 12:09:00

Analysis Type: REA9

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	38.5		0.0241	MDL	0.110	PQL	mg/Kg	J	E

Sample ID: SL-158-SA5B-SB-4.0-5.0

Collected: 12/22/2010 12:09:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0659	U	0.0659	MDL	0.220	PQL	mg/Kg	UJ	Q
ARSENIC	5.34		0.0659	MDL	0.439	PQL	mg/Kg	J	Q, E, E
CHROMIUM	18.5		0.132	MDL	0.439	PQL	mg/Kg	J	A
COBALT	7.13		0.0220	MDL	0.110	PQL	mg/Kg	J	A
SILVER	0.0396	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7199

Matrix: AQ

Sample ID: EB08-SA5B-122210

Collected: 12/22/2010 11:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	5.0	U	5.0	MDL	10.0	PQL	ug/L	UJ	H

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: DUP10-SA5B-QC-122210

Collected: 12/22/2010 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.39	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5B-SS-0.0-0.5

Collected: 12/22/2010 10:01:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.25	J	0.25	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-100-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:02:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.30	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-102-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:36:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.25	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-117-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.25	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA5B-SB-4.0-5.0

Collected: 12/22/2010 2:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5B-SB-4.0-5.0

Collected: 12/22/2010 10:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5B-SB-9.0-10.0

Collected: 12/22/2010 10:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-158-SA5B-SB-4.0-5.0

Collected: 12/22/2010 12:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: DUP10-SA5B-QC-122210

Collected: 12/22/2010 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0128	J	0.0032	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SED-010-SIV-SD-0.0-0.5

Collected: 12/22/2010 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0093	J	0.0035	MDL	0.122	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5B-SS-0.0-0.5

Collected: 12/22/2010 10:01:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0108	J	0.0035	MDL	0.120	PQL	mg/Kg	J	Z

Sample ID: SL-100-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:02:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0161	J	0.0031	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-102-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:36:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0763	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5B-SB-4.0-5.0

Collected: 12/22/2010 10:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0042	J	0.0031	MDL	0.110	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-158-SA5B-SB-4.0-5.0

Collected: 12/22/2010 12:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0048	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C

Matrix: AQ

Sample ID: FB06-SA5B-122210

Collected: 12/22/2010 1:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.82		0.522	MDL	1.04	PQL	ng/L	U	B

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: SL-114-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:22:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.61	J	0.50	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-117-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:25:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.72	J	0.50	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:10:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.80	J	0.47	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA5B-SB-4.0-5.0

Collected: 12/22/2010 2:54:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.94	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-101-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
4,4'-DDE	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
4,4'-DDT	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
ALDRIN	0.078	U	0.078	MDL	0.20	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.040	U	0.040	MDL	0.20	PQL	ug/Kg	UJ	S
BETA-BHC	0.071	U	0.071	MDL	0.20	PQL	ug/Kg	UJ	S
Chlordane	0.94	U	0.94	MDL	4.0	PQL	ug/Kg	UJ	S
DELTA-BHC	0.042	U	0.042	MDL	0.20	PQL	ug/Kg	UJ	S
DIELDRIN	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.052	U	0.052	MDL	0.20	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.20	J	0.078	MDL	0.40	PQL	ug/Kg	J	Z, S
ENDRIN	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.040	U	0.040	MDL	0.20	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.071	U	0.071	MDL	0.20	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.040	U	0.040	MDL	0.20	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.40	U	0.40	MDL	2.0	PQL	ug/Kg	UJ	S
MIREX	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
TOXAPHENE	2.6	U	2.6	MDL	7.8	PQL	ug/Kg	UJ	S

Sample ID: SL-117-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.10	J	0.082	MDL	0.42	PQL	ug/Kg	J	Z
MIREX	0.13	J	0.082	MDL	0.42	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA
Method:	8082
Matrix:	AQ

Sample ID: EB08-SA5B-122210 Collected: 12/22/2010 11:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L
Aroclor 5442	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L
Aroclor 5460	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L

Sample ID: FB06-SA5B-122210 Collected: 12/22/2010 1:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	0.10	U	0.10	MDL	0.50	PQL	ug/L	UJ	L
Aroclor 5442	0.10	U	0.10	MDL	0.50	PQL	ug/L	UJ	L
Aroclor 5460	0.10	U	0.10	MDL	0.50	PQL	ug/L	UJ	L

Method Category:	SVOA
Method:	8082
Matrix:	SO

Sample ID: DUP10-SA5B-QC-122210 Collected: 12/22/2010 9:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOLOR 1254	6.4		0.38	MDL	2.0	PQL	ug/Kg	J	S, FD
AROCOLOR 1260	2.5		0.38	MDL	2.0	PQL	ug/Kg	J	S, FD
Aroclor 5460	2.1	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z, S, FD

Sample ID: SED-010-SIV-SD-0.0-0.5 Collected: 12/22/2010 10:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOLOR 1254	2.0	J	0.40	MDL	2.1	PQL	ug/Kg	J	Z
AROCOLOR 1260	1.2	J	0.40	MDL	2.1	PQL	ug/Kg	J	Z

Sample ID: SL-024-SA5B-SS-0.0-0.5 Collected: 12/22/2010 10:01:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOLOR 1260	1.2	J	0.41	MDL	2.1	PQL	ug/Kg	J	Z
Aroclor 5460	1.4	J	1.3	MDL	4.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-100-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:02:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOR 1254	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	FD
AROCOR 1260	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	FD
Aroclor 5460	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-114-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOR 1260	1.1	J	0.41	MDL	2.1	PQL	ug/Kg	J	Z
Aroclor 5460	1.9	J	1.2	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-118-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOR 1254	0.79	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
AROCOR 1260	1.0	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5460	2.5	J	1.2	MDL	3.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: DUP10-SA5B-QC-122210

Collected: 12/22/2010 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.095	U	0.095	MDL	0.20	PQL	ug/Kg	UJ	FD
2,4-DB	1.7	J	0.72	MDL	2.0	PQL	ug/Kg	UJ	B, FD
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L
MCP	430		87	MDL	290	PQL	ug/Kg	J	FD

Sample ID: SED-010-SIV-SD-0.0-0.5

Collected: 12/22/2010 10:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.98	U	0.98	MDL	2.9	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA
Method:	8151A
Matrix:	SO

Sample ID: SL-024-SA5B-SS-0.0-0.5

Collected: 12/22/2010 10:01:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	0.97	J	0.78	MDL	2.1	PQL	ug/Kg	U	B
DINOSEB	1.0	U	1.0	MDL	3.0	PQL	ug/Kg	R	L

Sample ID: SL-100-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:02:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.12	J	0.095	MDL	0.20	PQL	ug/Kg	J	Z, FD
2,4-DB	1.0	U	1.0	MDL	2.0	PQL	ug/Kg	UJ	FD
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L
MCP	87	U	87	MDL	290	PQL	ug/Kg	UJ	FD

Sample ID: SL-101-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.94	U	0.94	MDL	2.8	PQL	ug/Kg	R	L
MCPA	180	J	90	MDL	290	PQL	ug/Kg	J	Z

Sample ID: SL-102-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:36:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.2	J	0.70	MDL	1.9	PQL	ug/Kg	U	B
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-114-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	0.87	J	0.77	MDL	2.1	PQL	ug/Kg	U	B
DINOSEB	1.0	U	1.0	MDL	3.0	PQL	ug/Kg	R	L

Sample ID: SL-117-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICHLOROPROP	2.0	J	0.99	MDL	2.1	PQL	ug/Kg	J	Z
DINOSEB	0.99	U	0.99	MDL	3.0	PQL	ug/Kg	R	L
MCPA	240	J	94	MDL	310	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA
Method:	8151A
Matrix:	SO

Sample ID: SL-118-SA5B-SS-0.0-0.5 Collected: 12/22/2010 9:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.94	U	0.94	MDL	2.8	PQL	ug/Kg	R	L
MCPA	110	J	90	MDL	290	PQL	ug/Kg	J	Z

Method Category:	SVOA
Method:	8270C
Matrix:	SO

Sample ID: DUP10-SA5B-QC-122210 Collected: 12/22/2010 9:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	23	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SED-010-SIV-SD-0.0-0.5 Collected: 12/22/2010 10:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	130	J	20	MDL	410	PQL	ug/Kg	J	Z

Sample ID: SL-100-SA5B-SS-0.0-0.5 Collected: 12/22/2010 9:02:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	20	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-101-SA5B-SS-0.0-0.5 Collected: 12/22/2010 9:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	58	J	20	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-114-SA5B-SS-0.0-0.5 Collected: 12/22/2010 9:22:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	87	J	21	MDL	420	PQL	ug/Kg	J	Z

Sample ID: SL-117-SA5B-SS-0.0-0.5 Collected: 12/22/2010 9:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	22	J	21	MDL	410	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-118-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	23	J	20	MDL	390	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: AQ

Sample ID: EB08-SA5B-122210

Collected: 12/22/2010 11:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	0.25	J	0.053	MDL	1.1	PQL	ug/L	UJ	E, B
Butylbenzylphthalate	0.067	J	0.053	MDL	1.1	PQL	ug/L	U	B
Diethylphthalate	0.098	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Dimethylphthalate	0.053	U	0.053	MDL	1.1	PQL	ug/L	UJ	L
Di-n-butylphthalate	0.40	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Di-n-octylphthalate	0.083	J	0.053	MDL	1.1	PQL	ug/L	U	B
NAPHTHALENE	0.034	J	0.011	MDL	0.053	PQL	ug/L	J	Z
N-NITROSODIMETHYLAMINE	0.011	U	0.011	MDL	0.053	PQL	ug/L	UJ	L

Sample ID: FB06-SA5B-122210

Collected: 12/22/2010 1:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.017	J	0.010	MDL	0.052	PQL	ug/L	J	Z
2-METHYLNAPHTHALENE	0.022	J	0.010	MDL	0.052	PQL	ug/L	J	Z
BIS(2-ETHYLHEXYL)PHthalate	0.22	J	0.052	MDL	1.0	PQL	ug/L	UJ	E, B
Butylbenzylphthalate	0.065	J	0.052	MDL	1.0	PQL	ug/L	U	B
Dimethylphthalate	0.052	U	0.052	MDL	1.0	PQL	ug/L	UJ	L
Di-n-butylphthalate	0.069	J	0.052	MDL	1.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.087	J	0.052	MDL	1.0	PQL	ug/L	U	B
N-NITROSODIMETHYLAMINE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: DUP10-SA5B-QC-122210

Collected: 12/22/2010 9:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.39	U	0.39	MDL	1.9	PQL	ug/Kg	UJ	FD
BENZO(A)ANTHRACENE	1.6	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z, FD
BENZO(A)PYRENE	2.0		0.77	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	3.7		0.77	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	1.4	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	1.2	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z, FD
CHRYSENE	2.2		0.39	MDL	1.9	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	FD
Di-n-butylphthalate	7.0	U	7.0	MDL	21	PQL	ug/Kg	UJ	FD
FLUORANTHENE	2.6		0.77	MDL	1.9	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	0.97	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	FD
PYRENE	2.7		0.77	MDL	1.9	PQL	ug/Kg	J	FD

Sample ID: SED-010-SIV-SD-0.0-0.5

Collected: 12/22/2010 10:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.2	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.41	MDL	2.0	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	1.0	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	1.8	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z
PYRENE	1.0	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-024-SA5B-SS-0.0-0.5

Collected: 12/22/2010 10:01:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.3	J	0.84	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.84	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.85	J	0.84	MDL	2.1	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.42	MDL	2.1	PQL	ug/Kg	J	Z
Di-n-butylphthalate	12	J	7.5	MDL	23	PQL	ug/Kg	J	Z
PYRENE	2.0	J	0.84	MDL	2.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-100-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:02:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.81	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	7.0		0.77	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	6.1		0.77	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	9.2		0.77	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	3.0		0.77	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	3.6		0.77	MDL	1.9	PQL	ug/Kg	J	FD
CHRYSENE	6.8		0.39	MDL	1.9	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	0.80	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z, FD
Di-n-butylphthalate	10	J	7.0	MDL	21	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	12		0.77	MDL	1.9	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	2.6		0.77	MDL	1.9	PQL	ug/Kg	J	FD
PHENANTHRENE	3.5		0.77	MDL	1.9	PQL	ug/Kg	J	FD
PYRENE	12		0.77	MDL	1.9	PQL	ug/Kg	J	FD

Sample ID: SL-101-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.81	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
CHRYSENE	0.67	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	0.91	J	0.79	MDL	2.0	PQL	ug/Kg	U	F
PHENANTHRENE	1.6	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-102-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:36:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Diethylphthalate	7.7	J	6.8	MDL	20	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.2	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-114-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.7	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA
Method:	8270C SIM
Matrix:	SO

Sample ID: SL-114-SA5B-SS-0.0-0.5 Collected: 12/22/2010 9:22:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.6	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
NAPHTHALENE	0.84	J	0.83	MDL	2.1	PQL	ug/Kg	U	F

Sample ID: SL-117-SA5B-SS-0.0-0.5 Collected: 12/22/2010 9:25:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.95	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.98	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
Diethylphthalate	11	J	7.4	MDL	22	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.4	J	7.4	MDL	22	PQL	ug/Kg	J	Z

Sample ID: SL-118-SA5B-SS-0.0-0.5 Collected: 12/22/2010 9:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.3	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
CHRYSENE	1.0	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
Diethylphthalate	7.4	J	7.1	MDL	21	PQL	ug/Kg	J	Z
Di-n-butylphthalate	11	J	7.1	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-145-SA5B-SB-4.0-5.0 Collected: 12/22/2010 2:54:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.89	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	0.87	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.2	J	6.9	MDL	21	PQL	ug/Kg	J	Z
NAPHTHALENE	0.90	J	0.76	MDL	1.9	PQL	ug/Kg	U	F
PHENANTHRENE	1.4	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.78	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA
Method:	8270C SIM
Matrix:	SO

Sample ID: SL-157-SA5B-SB-9.0-10.0 Collected: 12/22/2010 10:52:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	9.4	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-158-SA5B-SB-4.0-5.0 Collected: 12/22/2010 12:09:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	8.2	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Method Category:	VOA
Method:	8015B
Matrix:	SO

Sample ID: SL-114-SA5B-SS-0.0-0.5 Collected: 12/22/2010 9:22:00 Analysis Type: REA4 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	140	J	120	MDL	620	PQL	ug/Kg	J	Z, Q
METHANOL	520	J	120	MDL	620	PQL	ug/Kg	J	Z

Method Category:	VOA
Method:	8260B
Matrix:	AQ

Sample ID: FB06-SA5B-122210 Collected: 12/22/2010 1:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	1	J	0.8	MDL	5	PQL	ug/L	J	Z

Method Category:	VOA
Method:	8260B
Matrix:	SO

Sample ID: SL-114-SA5B-SS-0.0-0.5 Collected: 12/22/2010 9:22:00 Analysis Type: RES Dilution: 0.8

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.43	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-117-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:25:00

Analysis Type: RES

Dilution: 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.44	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.08	MDL	4.2	PQL	ug/Kg	U	B

Sample ID: SL-118-SA5B-SS-0.0-0.5

Collected: 12/22/2010 9:10:00

Analysis Type: RES

Dilution: 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.43	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-145-SA5B-SB-4.0-5.0

Collected: 12/22/2010 2:54:00

Analysis Type: RES

Dilution: 0.82

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.38	J	0.22	MDL	3.7	PQL	ug/Kg	U	B
TOLUENE	0.1	J	0.07	MDL	3.7	PQL	ug/Kg	U	B

Sample ID: SL-157-SA5B-SB-4.0-5.0

Collected: 12/22/2010 10:48:00

Analysis Type: RES

Dilution: 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.09	J	0.08	MDL	3.8	PQL	ug/Kg	U	B

Sample ID: SL-158-SA5B-SB-4.0-5.0

Collected: 12/22/2010 12:09:00

Analysis Type: RES

Dilution: 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.41	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.13	J	0.08	MDL	4.2	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: PrepDE051_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE051

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Preparation Method: Gen Prep

Matrix: AQ

<i>Sample ID</i>	<i>Type</i>	<i>Actual</i>	<i>Criteria</i>	<i>Units</i>	<i>Flag</i>
EB08-SA5B-122210 (RES)	Sampling To Analysis	26.00	24.00	HOURS	J (all detects) UJ (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA36B260542	1/6/2011 5:42:00 AM	N-NITROSODIMETHYLAMINE	1.95 ng/L	FB06-SA5B-122210

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
FB06-SA5B-122210(RES)	N-NITROSODIMETHYLAMINE	1.82 ng/L	1.82U ng/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P36408BB220923	12/31/2010 9:23:00 AM	ALUMINUM CALCIUM PHOSPHORUS STRONTIUM	5.76 mg/Kg 12.6 mg/Kg 1.68 mg/Kg 0.0650 mg/Kg	DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0

Method: 6020
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P36550AB220811A	1/6/2011 8:11:00 AM	COPPER LEAD	0.00058 mg/L 0.00023 mg/L	EB08-SA5B-122210 FB06-SA5B-122210

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB08-SA5B-122210(REA5)	LEAD	0.000055 mg/L	0.000055U mg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01026BB220913A	1/12/2011 9:13:00 AM	COPPER	0.0719 mg/Kg	DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0
P36426BB221325A	1/6/2011 1:25:00 PM	ARSENIC LEAD NICKEL	0.0658 mg/Kg 0.0128 mg/Kg 0.146 mg/Kg	DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0
P36426BB221325B	1/6/2011 1:25:00 PM	SELENIUM	0.0389 mg/Kg	DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP10-SA5B-QC-122210(REA2)	SELENIUM	0.121 mg/Kg	0.121U mg/Kg
SED-010-SIV-SD-0.0-0.5(REA2)	SELENIUM	0.137 mg/Kg	0.137U mg/Kg
SL-024-SA5B-SS-0.0-0.5(REA2)	SELENIUM	0.152 mg/Kg	0.152U mg/Kg
SL-100-SA5B-SS-0.0-0.5(REA2)	SELENIUM	0.127 mg/Kg	0.127U mg/Kg
SL-114-SA5B-SS-0.0-0.5(REA2)	SELENIUM	0.188 mg/Kg	0.188U mg/Kg
SL-145-SA5B-SB-4.0-5.0(REA2)	SELENIUM	0.163 mg/Kg	0.163U mg/Kg
SL-157-SA5B-SB-4.0-5.0(REA2)	SELENIUM	0.146 mg/Kg	0.146U mg/Kg
SL-157-SA5B-SB-9.0-10.0(REA2)	SELENIUM	0.104 mg/Kg	0.104U mg/Kg
SL-158-SA5B-SB-4.0-5.0(REA2)	SELENIUM	0.162 mg/Kg	0.162U mg/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015B Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P63630AB322004A	12/29/2010 8:04:00 PM	METHANOL	110 ug/Kg	SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5

Method: 8081A Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P65659AB241311A	1/19/2011 1:11:00 PM	DELTA-BHC	0.082 ug/Kg	DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5

Method: 8151A Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P04044AB240236A	1/10/2011 2:36:00 AM	2,4-DB	1.1 ug/Kg	DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP10-SA5B-QC-122210(RES)	2,4-DB	1.7 ug/Kg	2.0U ug/Kg
SL-024-SA5B-SS-0.0-0.5(RES)	2,4-DB	0.97 ug/Kg	2.1U ug/Kg
SL-102-SA5B-SS-0.0-0.5(RES)	2,4-DB	1.2 ug/Kg	1.9U ug/Kg
SL-114-SA5B-SS-0.0-0.5(RES)	2,4-DB	0.87 ug/Kg	2.1U ug/Kg

Method: 8260B Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB29B211244A	12/28/2010 12:44:00 PM	METHYLENE CHLORIDE O-XYLENE TOLUENE	0.39 ug/Kg 0.18 ug/Kg 0.17 ug/Kg	SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-158-SA5B-SB-4.0-5.0

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-114-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	0.43 ug/Kg	4.0U ug/Kg
SL-114-SA5B-SS-0.0-0.5(RES)	TOLUENE	0.11 ug/Kg	4.0U ug/Kg
SL-117-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	0.44 ug/Kg	4.2U ug/Kg
SL-117-SA5B-SS-0.0-0.5(RES)	TOLUENE	0.15 ug/Kg	4.2U ug/Kg
SL-118-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	0.43 ug/Kg	4.0U ug/Kg
SL-118-SA5B-SS-0.0-0.5(RES)	TOLUENE	0.11 ug/Kg	4.0U ug/Kg
SL-145-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.38 ug/Kg	3.7U ug/Kg
SL-145-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.1 ug/Kg	3.7U ug/Kg
SL-157-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.09 ug/Kg	3.8U ug/Kg
SL-158-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.41 ug/Kg	4.2U ug/Kg
SL-158-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.13 ug/Kg	4.2U ug/Kg

Method: 8270C SIM

Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWC36B260849	1/6/2011 8:49:00 AM	BIS(2-ETHYLHEXYL)PHthalate Butylbenzylphthalate Di-n-octylphthalate	0.056 ug/L 0.056 ug/L 0.082 ug/L	EB08-SA5B-122210 FB06-SA5B-122210

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB08-SA5B-122210(RES)	BIS(2-ETHYLHEXYL)PHthalate	0.25 ug/L	1.1U ug/L
EB08-SA5B-122210(RES)	Butylbenzylphthalate	0.067 ug/L	1.1U ug/L
EB08-SA5B-122210(RES)	Di-n-octylphthalate	0.083 ug/L	1.1U ug/L
FB06-SA5B-122210(RES)	BIS(2-ETHYLHEXYL)PHthalate	0.22 ug/L	1.0U ug/L
FB06-SA5B-122210(RES)	Butylbenzylphthalate	0.065 ug/L	1.0U ug/L
FB06-SA5B-122210(RES)	Di-n-octylphthalate	0.087 ug/L	1.0U ug/L

Field Blank Outlier Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

Field Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
FB06-SA5B-122210(RES)	12/22/2010 1:30:00 PM	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE BIS(2-ETHYLHEXYL)PHTHALATE Butylbenzylphthalate Di-n-butylphthalate Di-n-octylphthalate NAPHTHALENE	0.017 ug/L 0.022 ug/L 0.22 ug/L 0.065 ug/L 0.069 ug/L 0.087 ug/L 0.29 ug/L	DUP10-SA5B-QC-122210 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-101-SA5B-SS-0.0-0.5(RES)	NAPHTHALENE	0.91 ug/Kg	2.0U ug/Kg
SL-114-SA5B-SS-0.0-0.5(RES)	NAPHTHALENE	0.84 ug/Kg	2.1U ug/Kg
SL-145-SA5B-SB-4.0-5.0(RES)	NAPHTHALENE	0.90 ug/Kg	1.9U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-100-SA5B-SS-0.0-0.5MS (DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0)	VANADIUM	72	-	75.00-125.00	-	VANADIUM	No Qual, >4x

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-100-SA5B-SS-0.0-0.5MS (SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0)	FLUORIDE	79	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8015B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-114-SA5B-SS-0.0-0.5MS SL-114-SA5B-SS-0.0-0.5MSD (SL-114-SA5B-SS-0.0-0.5)	Isopropanol	68	66	75.00-125.00	-	Isopropanol	J(all detects) UJ(all non-detects)

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-100-SA5B-SS-0.0-0.5MSD (SL-100-SA5B-SS-0.0-0.5)	AROCLOR 1016	-	167	29.00-146.00	-	AROCLOR 1016, 1221, 1232	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-100-SA5B-SS-0.0-0.5MSD (SL-100-SA5B-SS-0.0-0.5)	DINOSEB	-	-	1.00-44.00	69 (35.00)	DINOSEB	J(all detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-100-SA5B-SS-0.0-0.5MSD (DUP10-SA5B-QC-122210 SED -010-SIV-SD-0.0-0.5 SL -024-SA5B-SS-0.0-0.5 SL -100-SA5B-SS-0.0-0.5 SL -101-SA5B-SS-0.0-0.5 SL -102-SA5B-SS-0.0-0.5 SL -114-SA5B-SS-0.0-0.5 SL -117-SA5B-SS-0.0-0.5 SL -118-SA5B-SS-0.0-0.5 SL -145-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-9.0-10.0 SL -158-SA5B-SB-4.0-5.0)	ZINC	-	153	75.00-125.00	-	ZINC	No Qual, >4x
SL-100-SA5B-SS-0.0-0.5MS SL-100-SA5B-SS-0.0-0.5MSD (DUP10-SA5B-QC-122210 SED -010-SIV-SD-0.0-0.5 SL -024-SA5B-SS-0.0-0.5 SL -100-SA5B-SS-0.0-0.5 SL -101-SA5B-SS-0.0-0.5 SL -102-SA5B-SS-0.0-0.5 SL -114-SA5B-SS-0.0-0.5 SL -117-SA5B-SS-0.0-0.5 SL -118-SA5B-SS-0.0-0.5 SL -145-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-9.0-10.0 SL -158-SA5B-SB-4.0-5.0)	ANTIMONY ARSENIC	32 174	35 -	75.00-125.00 75.00-125.00	- 23 (20.00)	ANTIMONY ARSENIC	J(all detects) UJ(all non-detects)
SL-100-SA5B-SS-0.0-0.5MS SL-100-SA5B-SS-0.0-0.5MSD (DUP10-SA5B-QC-122210 SED -010-SIV-SD-0.0-0.5 SL -024-SA5B-SS-0.0-0.5 SL -100-SA5B-SS-0.0-0.5 SL -101-SA5B-SS-0.0-0.5 SL -102-SA5B-SS-0.0-0.5 SL -114-SA5B-SS-0.0-0.5 SL -117-SA5B-SS-0.0-0.5 SL -118-SA5B-SS-0.0-0.5 SL -145-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-9.0-10.0 SL -158-SA5B-SB-4.0-5.0)	BARIUM	148	277	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-100-SA5B-SS-0.0-0.5MS SL-100-SA5B-SS-0.0-0.5MSD (DUP10-SA5B-QC-122210 SED -010-SIV-SD-0.0-0.5 SL -024-SA5B-SS-0.0-0.5 SL -100-SA5B-SS-0.0-0.5 SL -101-SA5B-SS-0.0-0.5 SL -102-SA5B-SS-0.0-0.5 SL -114-SA5B-SS-0.0-0.5 SL -117-SA5B-SS-0.0-0.5 SL -118-SA5B-SS-0.0-0.5 SL -145-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-9.0-10.0 SL -158-SA5B-SB-4.0-5.0)	MANGANESE PHOSPHORUS POTASSIUM TITANIUM	207 144 165 393	- 142 170 358	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	MANGANESE PHOSPHORUS POTASSIUM TITANIUM	J(all detects) Mn, Ti No Qual, >4x
SL-100-SA5B-SS-0.0-0.5MS SL-100-SA5B-SS-0.0-0.5MSD (DUP10-SA5B-QC-122210 SED -010-SIV-SD-0.0-0.5 SL -024-SA5B-SS-0.0-0.5 SL -100-SA5B-SS-0.0-0.5 SL -101-SA5B-SS-0.0-0.5 SL -102-SA5B-SS-0.0-0.5 SL -114-SA5B-SS-0.0-0.5 SL -117-SA5B-SS-0.0-0.5 SL -118-SA5B-SS-0.0-0.5 SL -145-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-9.0-10.0 SL -158-SA5B-SB-4.0-5.0)	ALUMINUM CALCIUM	1246 -91	-101 -258	75.00-125.00 75.00-125.00	- -	ALUMINUM CALCIUM	No Qual, >4x
SL-100-SA5B-SS-0.0-0.5MS SL-100-SA5B-SS-0.0-0.5MSD (DUP10-SA5B-QC-122210 SED -010-SIV-SD-0.0-0.5 SL -024-SA5B-SS-0.0-0.5 SL -100-SA5B-SS-0.0-0.5 SL -101-SA5B-SS-0.0-0.5 SL -102-SA5B-SS-0.0-0.5 SL -114-SA5B-SS-0.0-0.5 SL -117-SA5B-SS-0.0-0.5 SL -118-SA5B-SS-0.0-0.5 SL -145-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-9.0-10.0 SL -158-SA5B-SB-4.0-5.0)	IRON MAGNESIUM	7037 856	- 153	75.00-125.00 75.00-125.00	31 (20.00) 25 (20.00)	IRON MAGNESIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-100-SA5B-SS-0.0-0.5DUP (SL-024-SA5B-SS-0.0-0.5 SL -100-SA5B-SS-0.0-0.5 SL -102-SA5B-SS-0.0-0.5 SL -114-SA5B-SS-0.0-0.5 SL -118-SA5B-SS-0.0-0.5 SL -145-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-9.0-10.0 SL -158-SA5B-SB-4.0-5.0)	FLUORIDE Nitrate-NO3	32 200	20.00 20.00	No Qual OK by difference

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-100-SA5B-SS-0.0-0.5DUP (DUP10 -SA5B-QC-122210 SED -010-SIV-SD-0.0-0.5 SL -024-SA5B-SS-0.0-0.5 SL -100-SA5B-SS-0.0-0.5 SL -101-SA5B-SS-0.0-0.5 SL -102-SA5B-SS-0.0-0.5 SL -114-SA5B-SS-0.0-0.5 SL -117-SA5B-SS-0.0-0.5 SL -118-SA5B-SS-0.0-0.5 SL -145-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-9.0-10.0 SL -158-SA5B-SB-4.0-5.0)	CALCIUM STRONTIUM Zirconium	49 28 25	20.00 20.00 20.00	J(all detects) UJ(all non-detects) Zr No Qual OK by difference

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-100-SA5B-SS-0.0-0.5DUP (DUP10 -SA5B-QC-122210 SED -010-SIV-SD-0.0-0.5 SL -024-SA5B-SS-0.0-0.5 SL -100-SA5B-SS-0.0-0.5 SL -101-SA5B-SS-0.0-0.5 SL -102-SA5B-SS-0.0-0.5 SL -114-SA5B-SS-0.0-0.5 SL -117-SA5B-SS-0.0-0.5 SL -118-SA5B-SS-0.0-0.5 SL -145-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-9.0-10.0 SL -158-SA5B-SB-4.0-5.0)	ANTIMONY ARSENIC COPPER VANADIUM	200 30 32 32	20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Sb No Qual OK by difference

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-100-SA5B-SS-0.0-0.5DUP (DUP10-SA5B-QC-122210 SED -010-SIV-SD-0.0-0.5 SL -024-SA5B-SS-0.0-0.5 SL -100-SA5B-SS-0.0-0.5 SL -101-SA5B-SS-0.0-0.5 SL -102-SA5B-SS-0.0-0.5 SL -114-SA5B-SS-0.0-0.5 SL -117-SA5B-SS-0.0-0.5 SL -118-SA5B-SS-0.0-0.5 SL -145-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-9.0-10.0 SL -158-SA5B-SB-4.0-5.0)	HEXAVALENT CHROMIUM	42	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03573AY240031A (EB08 -SA5B -122210 FB06 -SA5B -122210)	4,4'-DDE	-	137	66.00-130.00	-	4,4'-DDE	J (all detects)

Method: 8082

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03574AY241535A (EB08 -SA5B -122210 FB06 -SA5B -122210)	AROCLOR 1260	-	142	56.00-135.00	-	AROCLOR 1242, 1248, 1254, 1260	J(all detects)
P03574AQ241612A P03574AY241554A (EB08 -SA5B -122210 FB06 -SA5B -122210)	Aroclor 5442	56	64	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Method: 8270C SIM

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P2WCLCSQ260921 P2WCLCSY260953 (EB08 -SA5B -122210 FB06 -SA5B -122210)	BIS(2-ETHYLHEXYL)PHTHALAT Dimethylphthalate N-NITROSODIMETHYLAMINE	- 66 55	- 69 51	70.00-130.00 70.00-130.00 70.00-130.00	33 (30.00) - -	BIS(2-ETHYLHEXYL)PHTHALA Dimethylphthalate N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03659AQ241325A (DUP10 -SA5B -QC -122210 SED -010-SIV-SD-0.0-0.5 SL -024-SA5B-SS-0.0-0.5 SL -100-SA5B-SS-0.0-0.5 SL -101-SA5B-SS-0.0-0.5 SL -102-SA5B-SS-0.0-0.5 SL -114-SA5B-SS-0.0-0.5 SL -117-SA5B-SS-0.0-0.5 SL -118-SA5B-SS-0.0-0.5)	ALDRIN HEPTACHLOR EPOXIDE	139 133	- -	44.00-135.00 65.00-131.00	- -	ALDRIN HEPTACHLOR EPOXIDE	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10044AQ240304A (DUP10-SA5B-QC-122210 SED -010-SIV-SD-0.0-0.5 SL -024-SA5B-SS-0.0-0.5 SL -100-SA5B-SS-0.0-0.5 SL -101-SA5B-SS-0.0-0.5 SL -102-SA5B-SS-0.0-0.5 SL -114-SA5B-SS-0.0-0.5 SL -117-SA5B-SS-0.0-0.5 SL -118-SA5B-SS-0.0-0.5)	DINOSEB	5	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P36426BQ221328A (DUP10-SA5B-QC-122210 SED -010-SIV-SD-0.0-0.5 SL -024-SA5B-SS-0.0-0.5 SL -100-SA5B-SS-0.0-0.5 SL -101-SA5B-SS-0.0-0.5 SL -102-SA5B-SS-0.0-0.5 SL -114-SA5B-SS-0.0-0.5 SL -117-SA5B-SS-0.0-0.5 SL -118-SA5B-SS-0.0-0.5 SL -145-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-4.0-5.0 SL -157-SA5B-SB-9.0-10.0 SL -158-SA5B-SB-4.0-5.0)	ANTIMONY	65	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-114-SA5B-SS-0.0-0.5	N-Nitrosodimethylamine-d6	592	50.00-150.00	All Target Analytes	No Qual Diluted Out
SL-117-SA5B-SS-0.0-0.5	N-Nitrosodimethylamine-d6	733	50.00-150.00	All Target Analytes	No Qual Diluted Out
SL-118-SA5B-SS-0.0-0.5	N-Nitrosodimethylamine-d6	515	50.00-150.00	All Target Analytes	No Qual Diluted Out
SL-145-SA5B-SB-4.0-5.0	N-Nitrosodimethylamine-d6	596	50.00-150.00	All Target Analytes	No Qual Diluted Out

Method: 8081A
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB08-SA5B-122210	DECACHLOROBIPHENYL	127	20.00-120.00	All Target Analytes	J(all detects)
FB06-SA5B-122210	DECACHLOROBIPHENYL	135	20.00-120.00	All Target Analytes	J(all detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-101-SA5B-SS-0.0-0.5	TETRACHLORO-M-XYLENE	40	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-114-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	128	20.00-120.00	All Target Analytes	J(all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP10-SA5B-QC-122210	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	124 146	45.00-120.00 53.00-139.00	All Target Analytes	J (all detects)

Method: 8082
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB08-SA5B-122210	DECACHLOROBIPHENYL	137	45.00-120.00	All Target Analytes	J(all detects)
FB06-SA5B-122210	DECACHLOROBIPHENYL	126	45.00-120.00	All Target Analytes	J(all detects)

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Surrogate Outlier Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-157-SA5B-SB- 9.0-10.0	DECACHLOROBIPHENYL	129	45.00-120.00	All Target Analytes	J(all detects)
SL-158-SA5B-SB- 4.0-5.0	DECACHLOROBIPHENYL	123	45.00-120.00	All Target Analytes	J(all detects)

Method: 8151A

Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
FB06-SA5B- 122210	2,4-Dichlorophenylacetic acid	133	70.00-130.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
MOISTURE	13.9	13.7	1		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
FLUORIDE	1.5	1.3	14	50.00	No Qualifiers Applied

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
ALUMINUM	15500	13900	11	50.00	No Qualifiers Applied
BORON	5.13	4.36	16	50.00	
IRON	21000	18600	12	50.00	
LITHIUM	23.0	21.0	9	50.00	
MAGNESIUM	4940	4260	15	50.00	
MANGANESE	283	261	8	50.00	
PHOSPHORUS	423	361	16	50.00	
POTASSIUM	3050	2800	9	50.00	
SODIUM	95.5	92.3	3	50.00	
STRONTIUM	25.6	18.7	31	50.00	
TIN	2.26	2.22	2	50.00	
TITANIUM	1130	1120	1	50.00	
Zirconium	3.01	1.88	46	50.00	
CALCIUM	5190	3070	51	50.00	J(all detects)

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
ANTIMONY	0.120	0.0960	22	50.00	No Qualifiers Applied
ARSENIC	3.21	4.90	42	50.00	
BARIUM	102	98.1	4	50.00	
BERYLLIUM	0.404	0.467	14	50.00	
CADMIUM	0.121	0.133	9	50.00	
CHROMIUM	14.9	16.6	11	50.00	
COBALT	5.29	5.52	4	50.00	
COPPER	13.5	11.2	19	50.00	
LEAD	5.00	5.68	13	50.00	
MOLYBDENUM	0.447	0.615	32	50.00	
NICKEL	10.4	11.8	13	50.00	
SELENIUM	0.127	0.121	5	50.00	
SILVER	0.0305	0.0302	1	50.00	
THALLIUM	0.243	0.259	6	50.00	
VANADIUM	48.4	39.4	21	50.00	
ZINC	57.2	56.2	2	50.00	

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
HEXAVALENT CHROMIUM	0.30	0.39	26	50.00	No Qualifiers Applied

Method: 7471A

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
MERCURY	0.0161	0.0128	23	50.00	No Qualifiers Applied

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
AROCOR 1254	2.0 U	6.4	200	50.00	J(all detects) UJ(all non-detects)
AROCOR 1260	2.0 U	2.5	200	50.00	
Aroclor 5460	3.8 U	2.1	200	50.00	

Method: 8151A

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
2,4,5-T	0.12	0.20 U	200	50.00	J(all detects) UJ(all non-detects)
2,4-DB	2.0 U	1.7	200	50.00	
MCPP	290 U	430	200	50.00	

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
ANTHRACENE	0.81	1.9 U	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)ANTHRACENE	7.0	1.6	126	50.00	
BENZO(A)PYRENE	6.1	2.0	101	50.00	
BENZO(B)FLUORANTHENE	9.2	3.7	85	50.00	
BENZO(G,H,I)PERYLENE	3.0	1.4	73	50.00	
BENZO(K)FLUORANTHENE	3.6	1.2	100	50.00	
CHRYSENE	6.8	2.2	102	50.00	
DIBENZO(A,H)ANTHRACENE	0.80	1.9 U	200	50.00	
Di-n-butylphthalate	10	21 U	200	50.00	
FLUORANTHENE	12	2.6	129	50.00	
INDENO(1,2,3-CD)PYRENE	2.6	0.97	91	50.00	
PHENANTHRENE	3.5	1.9 U	200	50.00	
PYRENE	12	2.7	127	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0- 0.5	DUP10-SA5B-QC- 122210			
BIS(2-ETHYLHEXYL)PHTHALATE	20	23	14	50.00	No Qualifiers Applied

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0- 0.5	DUP10-SA5B-QC- 122210			
PH	7.70	8.17	6	50.00	No Qualifiers Applied

Method: ASTM D1498

Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0- 0.5	DUP10-SA5B-QC- 122210			
Oxidation Reduction Potential	459	429	7		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB08-SA5B-122210	IRON	J	0.0640	0.200	PQL	mg/L	J (all detects)

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB08-SA5B-122210	LEAD	J	0.000055	0.0010	PQL	mg/L	J (all detects)

Method: 8260B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
FB06-SA5B-122210	CHLOROFORM	J	1	5	PQL	ug/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB08-SA5B-122210	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.25	1.1	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.067	1.1	PQL	ug/L	
	Diethylphthalate	J	0.098	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.40	1.1	PQL	ug/L	
	Di-n-octylphthalate	J	0.083	1.1	PQL	ug/L	
	NAPHTHALENE	J	0.034	0.053	PQL	ug/L	
FB06-SA5B-122210	1-METHYLNAPHTHALENE	J	0.017	0.052	PQL	ug/L	J (all detects)
	2-METHYLNAPHTHALENE	J	0.022	0.052	PQL	ug/L	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.22	1.0	PQL	ug/L	
	Butylbenzylphthalate	J	0.065	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.069	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.087	1.0	PQL	ug/L	

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	BORON	J	4.36	5.62	PQL	mg/Kg	J (all detects)
	SODIUM	J	92.3	112	PQL	mg/Kg	
	TIN	J	2.22	11.2	PQL	mg/Kg	
	Zirconium	J	1.88	5.62	PQL	mg/Kg	
SED-010-SIV-SD-0.0-0.5	SODIUM	J	56.7	119	PQL	mg/Kg	J (all detects)
	TIN	J	2.40	11.9	PQL	mg/Kg	
SL-024-SA5B-SS-0.0-0.5	BORON	J	4.85	6.02	PQL	mg/Kg	J (all detects)
	SODIUM	J	104	120	PQL	mg/Kg	
	TIN	J	2.26	12.0	PQL	mg/Kg	
	Zirconium	J	2.14	6.02	PQL	mg/Kg	

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Reporting Limit Outliers

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-100-SA5B-SS-0.0-0.5	BORON	J	5.13	5.69	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.5	114	PQL	mg/Kg	
	TIN	J	2.26	11.4	PQL	mg/Kg	
	Zirconium	J	3.01	5.69	PQL	mg/Kg	
SL-101-SA5B-SS-0.0-0.5	BORON	J	5.41	5.66	PQL	mg/Kg	J (all detects)
	TIN	J	2.50	11.3	PQL	mg/Kg	
	Zirconium	J	2.40	5.66	PQL	mg/Kg	
SL-102-SA5B-SS-0.0-0.5	BORON	J	4.70	5.43	PQL	mg/Kg	J (all detects)
	TIN	J	2.27	10.9	PQL	mg/Kg	
	Zirconium	J	2.04	5.43	PQL	mg/Kg	
SL-114-SA5B-SS-0.0-0.5	TIN	J	2.21	12.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.94	6.23	PQL	mg/Kg	
SL-117-SA5B-SS-0.0-0.5	TIN	J	2.05	12.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.97	6.14	PQL	mg/Kg	
SL-118-SA5B-SS-0.0-0.5	BORON	J	5.79	5.84	PQL	mg/Kg	J (all detects)
	SODIUM	J	72.7	117	PQL	mg/Kg	
	TIN	J	1.61	11.7	PQL	mg/Kg	
	Zirconium	J	1.94	5.84	PQL	mg/Kg	
SL-145-SA5B-SB-4.0-5.0	TIN	J	1.77	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.17	5.45	PQL	mg/Kg	
SL-157-SA5B-SB-4.0-5.0	BORON	J	3.70	5.23	PQL	mg/Kg	J (all detects)
	TIN	J	2.24	10.5	PQL	mg/Kg	
	Zirconium	J	1.84	5.23	PQL	mg/Kg	
SL-157-SA5B-SB-9.0-10.0	BORON	J	3.90	5.52	PQL	mg/Kg	J (all detects)
	SODIUM	J	96.7	110	PQL	mg/Kg	
	TIN	J	2.36	11.0	PQL	mg/Kg	
	Zirconium	J	2.05	5.52	PQL	mg/Kg	
SL-158-SA5B-SB-4.0-5.0	BORON	J	3.92	5.54	PQL	mg/Kg	J (all detects)
	TIN	J	2.35	11.1	PQL	mg/Kg	
	Zirconium	J	2.09	5.54	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	ANTIMONY	J	0.0960	0.232	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.463	PQL	mg/Kg	
	SILVER	J	0.0302	0.116	PQL	mg/Kg	
SED-010-SIV-SD-0.0-0.5	SELENIUM	J	0.137	0.465	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0232	0.116	PQL	mg/Kg	
SL-024-SA5B-SS-0.0-0.5	SELENIUM	J	0.152	0.501	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0342	0.125	PQL	mg/Kg	
SL-100-SA5B-SS-0.0-0.5	ANTIMONY	J	0.120	0.228	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.127	0.455	PQL	mg/Kg	
	SILVER	J	0.0305	0.114	PQL	mg/Kg	
SL-101-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0982	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.210	0.453	PQL	mg/Kg	
	SILVER	J	0.0532	0.113	PQL	mg/Kg	
SL-102-SA5B-SS-0.0-0.5	ANTIMONY	J	0.134	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.195	0.443	PQL	mg/Kg	
	SILVER	J	0.0333	0.111	PQL	mg/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.0895	0.247	PQL	mg/Kg	J (all detects)
		J	0.188	0.494	PQL	mg/Kg	
		J	0.0289	0.123	PQL	mg/Kg	
SL-117-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.189	0.248	PQL	mg/Kg	J (all detects)
		J	0.296	0.496	PQL	mg/Kg	
		J	0.0309	0.124	PQL	mg/Kg	
SL-118-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J	0.128	0.229	PQL	mg/Kg	J (all detects)
		J	0.265	0.458	PQL	mg/Kg	
		J	0.0300	0.114	PQL	mg/Kg	
SL-145-SA5B-SB-4.0-5.0	ANTIMONY SELENIUM SILVER	J	0.103	0.227	PQL	mg/Kg	J (all detects)
		J	0.163	0.453	PQL	mg/Kg	
		J	0.0394	0.113	PQL	mg/Kg	
SL-157-SA5B-SB-4.0-5.0	SELENIUM SILVER	J	0.146	0.426	PQL	mg/Kg	J (all detects)
		J	0.0237	0.107	PQL	mg/Kg	
SL-157-SA5B-SB-9.0-10.0	ANTIMONY SELENIUM SILVER	J	0.0651	0.214	PQL	mg/Kg	J (all detects)
		J	0.104	0.429	PQL	mg/Kg	
		J	0.0339	0.107	PQL	mg/Kg	
SL-158-SA5B-SB-4.0-5.0	SELENIUM SILVER	J	0.162	0.439	PQL	mg/Kg	J (all detects)
		J	0.0396	0.110	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	HEXAVALENT CHROMIUM	J	0.39	1.2	PQL	mg/Kg	J (all detects)
SL-024-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.25	1.3	PQL	mg/Kg	J (all detects)
SL-100-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.30	1.2	PQL	mg/Kg	J (all detects)
SL-102-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-114-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.2	PQL	mg/Kg	J (all detects)
SL-117-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.33	1.2	PQL	mg/Kg	J (all detects)
SL-118-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.44	1.2	PQL	mg/Kg	J (all detects)
SL-145-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.41	1.1	PQL	mg/Kg	J (all detects)
SL-157-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.40	1.1	PQL	mg/Kg	J (all detects)
SL-157-SA5B-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-158-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.51	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	MERCURY	J	0.0128	0.113	PQL	mg/Kg	J (all detects)
SED-010-SIV-SD-0.0-0.5	MERCURY	J	0.0093	0.122	PQL	mg/Kg	J (all detects)
SL-024-SA5B-SS-0.0-0.5	MERCURY	J	0.0108	0.120	PQL	mg/Kg	J (all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-100-SA5B-SS-0.0-0.5	MERCURY	J	0.0161	0.109	PQL	mg/Kg	J (all detects)
SL-102-SA5B-SS-0.0-0.5	MERCURY	J	0.0763	0.108	PQL	mg/Kg	J (all detects)
SL-157-SA5B-SB-4.0-5.0	MERCURY	J	0.0042	0.110	PQL	mg/Kg	J (all detects)
SL-158-SA5B-SB-4.0-5.0	MERCURY	J	0.0048	0.107	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA5B-SS-0.0-0.5	Isopropanol	J	140	620	PQL	ug/Kg	J (all detects)
	METHANOL	J	520	620	PQL	ug/Kg	

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA5B-SS-0.0-0.5	EFH (C15-C20)	J	0.61	1.5	PQL	mg/Kg	J (all detects)
SL-117-SA5B-SS-0.0-0.5	EFH (C15-C20)	J	0.72	1.5	PQL	mg/Kg	J (all detects)
SL-118-SA5B-SS-0.0-0.5	EFH (C15-C20)	J	0.80	1.4	PQL	mg/Kg	J (all detects)
SL-145-SA5B-SB-4.0-5.0	EFH (C15-C20)	J	0.94	1.4	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-101-SA5B-SS-0.0-0.5	ENDOSULFAN SULFATE	J	0.20	0.40	PQL	ug/Kg	J (all detects)
SL-117-SA5B-SS-0.0-0.5	4,4'-DDT	J	0.10	0.42	PQL	ug/Kg	J (all detects)
	MIREX	J	0.13	0.42	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	Aroclor 5460	J	2.1	3.8	PQL	ug/Kg	J (all detects)
SED-010-SIV-SD-0.0-0.5	AROCLOR 1254	J	2.0	2.1	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.2	2.1	PQL	ug/Kg	
SL-024-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.2	2.1	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.4	4.1	PQL	ug/Kg	
SL-114-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.1	2.1	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.9	4.1	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-118-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.79	2.0	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.0	2.0	PQL	ug/Kg	
	Aroclor 5460	J	2.5	3.9	PQL	ug/Kg	

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	2,4-DB	J	1.7	2.0	PQL	ug/Kg	J (all detects)
SL-024-SA5B-SS-0.0-0.5	2,4-DB	J	0.97	2.1	PQL	ug/Kg	J (all detects)
SL-100-SA5B-SS-0.0-0.5	2,4,5-T	J	0.12	0.20	PQL	ug/Kg	J (all detects)
SL-101-SA5B-SS-0.0-0.5	MCPA	J	180	290	PQL	ug/Kg	J (all detects)
SL-102-SA5B-SS-0.0-0.5	2,4-DB	J	1.2	1.9	PQL	ug/Kg	J (all detects)
SL-114-SA5B-SS-0.0-0.5	2,4-DB	J	0.87	2.1	PQL	ug/Kg	J (all detects)
SL-117-SA5B-SS-0.0-0.5	DICHLOROPROP	J	2.0	2.1	PQL	ug/Kg	J (all detects)
	MCPA	J	240	310	PQL	ug/Kg	
SL-118-SA5B-SS-0.0-0.5	MCPA	J	110	290	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	0.43	4.0	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.11	4.0	PQL	ug/Kg	
SL-117-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	0.44	4.2	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.15	4.2	PQL	ug/Kg	
SL-118-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	0.43	4.0	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.11	4.0	PQL	ug/Kg	
SL-145-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.38	3.7	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.1	3.7	PQL	ug/Kg	
SL-157-SA5B-SB-4.0-5.0	TOLUENE	J	0.09	3.8	PQL	ug/Kg	J (all detects)
SL-158-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.41	4.2	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.13	4.2	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	390	PQL	ug/Kg	J (all detects)
SED-010-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	130	410	PQL	ug/Kg	J (all detects)
SL-100-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	390	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-101-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	58	390	PQL	ug/Kg	J (all detects)
SL-114-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	87	420	PQL	ug/Kg	J (all detects)
SL-117-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	22	410	PQL	ug/Kg	J (all detects)
SL-118-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	390	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	BENZO(A)ANTHRACENE	J	1.6	1.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.4	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.2	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.97	1.9	PQL	ug/Kg	
SED-010-SIV-SD-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.2	2.0	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.1	2.0	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	1.0	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	1.8	2.0	PQL	ug/Kg	
	PYRENE	J	1.0	2.0	PQL	ug/Kg	
SL-024-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.3	2.1	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.3	2.1	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.85	2.1	PQL	ug/Kg	
	CHRYSENE	J	1.6	2.1	PQL	ug/Kg	
	Di-n-butylphthalate	J	12	23	PQL	ug/Kg	
	PYRENE	J	2.0	2.1	PQL	ug/Kg	
SL-100-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.81	1.9	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	0.80	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	10	21	PQL	ug/Kg	
SL-101-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.81	2.0	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.67	2.0	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	0.91	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	2.0	PQL	ug/Kg	
	PYRENE	J	1.2	2.0	PQL	ug/Kg	
SL-102-SA5B-SS-0.0-0.5	Diethylphthalate	J	7.7	20	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	7.2	20	PQL	ug/Kg	
SL-114-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.7	2.1	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.3	2.1	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.6	2.1	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	2.1	PQL	ug/Kg	
	NAPHTHALENE	J	0.84	2.1	PQL	ug/Kg	
SL-117-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.95	2.1	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	0.98	2.1	PQL	ug/Kg	
	Diethylphthalate	J	11	22	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.4	22	PQL	ug/Kg	
SL-118-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.3	2.0	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.0	2.0	PQL	ug/Kg	
	CHRYSENE	J	1.0	2.0	PQL	ug/Kg	
	Diethylphthalate	J	7.4	21	PQL	ug/Kg	
	Di-n-butylphthalate	J	11	21	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE051

Laboratory: LL

EDD Filename: DE051_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-145-SA5B-SB-4.0-5.0	2-METHYLNAPHTHALENE	J	0.89	1.9	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	0.87	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	21	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.2	21	PQL	ug/Kg	
	NAPHTHALENE	J	0.90	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	1.9	PQL	ug/Kg	
	PYRENE	J	0.78	1.9	PQL	ug/Kg	
SL-157-SA5B-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.4	20	PQL	ug/Kg	J (all detects)
SL-158-SA5B-SB-4.0-5.0	Di-n-butylphthalate	J	8.2	20	PQL	ug/Kg	J (all detects)

LDC #: 25550G4 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: DE051 ADR
 Laboratory: Lancaster Laboratories

Date: 6/6/11
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Mg/Mn, Ti, V, Zn > 4x)
VII.	Duplicate Sample Analysis	N	Dup (Sb, Zr < 5x)
VIII.	Laboratory Control Samples (LCS)	N	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/UJ/A (A)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	SW	EB=2, *FB=3

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

*ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	DUP10-SA5B-QC-122210	11	SL-024-SA5B-SS--0.0-0.5	21		31	
2	EB08-SA5B-122210	12	SL-157-SA5B-SS-4.0-5.0	22		32	
3	FB06-SA5B-122210	13	SL-158-SA5B-SS-4.0-5.0	23		33	
4	SED-010-SIV-SD-0.0-0.5	14	SL-157-SA5B-SS-9.0-10.0	24		34	
5	SL-101-SA5B-SS-0.0-0.5	15	SL-145-SA5B-SS-4.0-5.0	25		35	
6	SL-117-SA5B-SS--0.0-0.5	16	SL-100-SA5B-SS--0.0-0.5MS	26		36	
7	SL-118-SA5B-SS--0.0-0.5	17	SL-100-SA5B-SS--0.0-0.5MSD	27		37	
8	SL-100-SA5B-SS--0.0-0.5	18	SL-100-SA5B-SS--0.0-0.5DUP	28		38	
9	SL-114-SA5B-SS--0.0-0.5	19		29		39	
10	SL-102-SA5B-SS--0.0-0.5	20		30		40	

Notes: _____

[illegible]

CDMBoeingMet.wpd

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	1	5	6	7	8	9	10	13	14	15
Sb				0.39	0.096	0.098	0.19	0.13	0.12	0.089	0.13	0.066	0.065	0.10

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

Y	N	N/A	Were target analytes detected in the field blanks?
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Sampling date: 12/22/10 Soil factor applied 100x

Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: _____ All Soil

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above; these sample results were qualified as not detected "U".



QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: DE051

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6173167BKG

Serial Dilution Lab Sample ID: 6173167L

Batch ID(s): P36408B, P36426B, P01026B

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		136129.7800		127477.3000		6		P
Antimony	121	0.5279	B	1.5000	U	100		MS
Arsenic	75	14.1100		16.1300		14		MS
Barium	137	447.0000		496.0500		11	E	MS
Beryllium	9	1.7720		1.9050	B	8		MS
Boron		45.0200	B	65.3000	B	45		P
Cadmium	111	0.5325		0.9000	U	100		MS
Calcium		45607.0100		47789.8500		5		P
Chromium	52	65.5600		78.7500		20	E	MS
Cobalt	59	23.2200		28.1350		21	E	MS
Copper	63	57.9200		55.6000		4		MS
Iron		184162.5200		178821.0000		3		P
Lead	208	21.9700		23.2650		6		MS
Lithium		201.7500		206.2000		2		P
Magnesium		43413.3200		44314.6000		2		P
Manganese		2482.4600		2549.5500		3		P
Molybdenum	98	1.9630		2.5450		30		MS
Nickel	60	45.5200		55.6000		22		MS
Phosphorus		3717.5400		3715.0000		0		P
Potassium		26752.5400		27879.8500		4		P
Selenium	78	0.5569	B	1.0000	U	100		MS
Silver	107	0.1338	B	0.3000	U	100		MS
Sodium		838.3400	B	1865.0000	U	100		P
Strontium		224.4700		225.2000		0		P
Thallium	203	1.0690		1.0620	B	1		MS
Tin		19.8500	B	50.0000	U	100		P
Titanium		9920.4600		10413.7500		5		P
Vanadium	51	208.3000		200.4000		4		MS
Zinc	66	251.1000		281.0000		12		MS
Zirconium		26.4600	B	42.0000	U	100		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:

P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:

DE051 6252

U= Below MDL

B= Below LOQ

FLAGS:

E = Matrix Effects exist as proven by
Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE052

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5	6177801	N	3050B	6010B	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5	6177801	N	3050B	6020	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5	6177801	N	3060A	7199	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5	6177801	N	3550B	8081A	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5	6177801	N	3550B	8082	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5	6177801	N	3550B	8151A	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5	6177801	N	3550B	8270C	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5	6177801	N	3550B	8270C SIM	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5	6177801	N	Gen Prep	9045M	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5	6177801	N	METHOD	300.0	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5	6177801	N	METHOD	314.0	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5	6177801	N	METHOD	7471A	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5MSD	P177801M241456A	MSD	3550B	8151A	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5MSD	P177801M242100A	MSD	3550B	8081A	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5MSD	P177801M260949	MSD	3550B	8270C SIM	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5MS	P177801R241428A	MS	3550B	8151A	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5MS	P177801R242046A	MS	3550B	8081A	III
04-Jan-2011	SL-140-SA5B-SS-0.0-0.5MS	P177801R260917	MS	3550B	8270C SIM	III
04-Jan-2011	SL-039-SA5C-SS-0.0-0.5	6177802	N	3050B	6010B	III
04-Jan-2011	SL-039-SA5C-SS-0.0-0.5	6177802	N	3050B	6020	III
04-Jan-2011	SL-039-SA5C-SS-0.0-0.5	6177802	N	3060A	7199	III
04-Jan-2011	SL-039-SA5C-SS-0.0-0.5	6177802	N	3550B	8081A	III
04-Jan-2011	SL-039-SA5C-SS-0.0-0.5	6177802	N	3550B	8082	III
04-Jan-2011	SL-039-SA5C-SS-0.0-0.5	6177802	N	3550B	8151A	III
04-Jan-2011	SL-039-SA5C-SS-0.0-0.5	6177802	N	3550B	8270C	III
04-Jan-2011	SL-039-SA5C-SS-0.0-0.5	6177802	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Jan-2011	SL-039-SA5C-SS-0.0-0.5	6177802	N	Gen Prep	9045M	III
04-Jan-2011	SL-039-SA5C-SS-0.0-0.5	6177802	N	METHOD	300.0	III
04-Jan-2011	SL-039-SA5C-SS-0.0-0.5	6177802	N	METHOD	314.0	III
04-Jan-2011	SL-039-SA5C-SS-0.0-0.5	6177802	N	METHOD	7471A	III
04-Jan-2011	SL-036-SA5C-SS-0.0-0.5	6177803	N	3050B	6010B	III
04-Jan-2011	SL-036-SA5C-SS-0.0-0.5	6177803	N	3050B	6020	III
04-Jan-2011	SL-036-SA5C-SS-0.0-0.5	6177803	N	3060A	7199	III
04-Jan-2011	SL-036-SA5C-SS-0.0-0.5	6177803	N	3550B	8081A	III
04-Jan-2011	SL-036-SA5C-SS-0.0-0.5	6177803	N	3550B	8082	III
04-Jan-2011	SL-036-SA5C-SS-0.0-0.5	6177803	N	3550B	8151A	III
04-Jan-2011	SL-036-SA5C-SS-0.0-0.5	6177803	N	3550B	8270C	III
04-Jan-2011	SL-036-SA5C-SS-0.0-0.5	6177803	N	3550B	8270C SIM	III
04-Jan-2011	SL-036-SA5C-SS-0.0-0.5	6177803	N	Gen Prep	9045M	III
04-Jan-2011	SL-036-SA5C-SS-0.0-0.5	6177803	N	METHOD	300.0	III
04-Jan-2011	SL-036-SA5C-SS-0.0-0.5	6177803	N	METHOD	314.0	III
04-Jan-2011	SL-036-SA5C-SS-0.0-0.5	6177803	N	METHOD	7471A	III
04-Jan-2011	SL-097-SA5C-SS-0.0-0.5	6177804	N	3050B	6010B	III
04-Jan-2011	SL-097-SA5C-SS-0.0-0.5	6177804	N	3050B	6020	III
04-Jan-2011	SL-097-SA5C-SS-0.0-0.5	6177804	N	3060A	7199	III
04-Jan-2011	SL-097-SA5C-SS-0.0-0.5	6177804	N	3550B	8081A	III
04-Jan-2011	SL-097-SA5C-SS-0.0-0.5	6177804	N	3550B	8082	III
04-Jan-2011	SL-097-SA5C-SS-0.0-0.5	6177804	N	3550B	8151A	III
04-Jan-2011	SL-097-SA5C-SS-0.0-0.5	6177804	N	3550B	8270C	III
04-Jan-2011	SL-097-SA5C-SS-0.0-0.5	6177804	N	3550B	8270C SIM	III
04-Jan-2011	SL-097-SA5C-SS-0.0-0.5	6177804	N	Gen Prep	9045M	III
04-Jan-2011	SL-097-SA5C-SS-0.0-0.5	6177804	N	METHOD	300.0	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Jan-2011	SL-097-SA5C-SS-0.0-0.5	6177804	N	METHOD	314.0	III
04-Jan-2011	SL-097-SA5C-SS-0.0-0.5	6177804	N	METHOD	7471A	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	3050B	6010B	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	3050B	6020	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	3060A	7199	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	3546	1625C	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	3550B	8015B	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	3550B	8015M	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	3550B	8082	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	3550B	8270C	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	3550B	8270C SIM	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	5035	8015M	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	5035	8260B	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	5035	8260B SIM	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	8330	8330A	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	Gen Prep	9045M	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	METHOD	300.0	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	METHOD	314.0	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	METHOD	7471A	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	METHOD	8015B	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	METHOD	8015M	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	METHOD	8315A	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0	6177800	N	METHOD	9012B	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0DUP	P177800D271303A	DUP	METHOD	300.0	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0DUP	P177800D271855A	DUP	METHOD	9012B	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0MSD	P177800M241337A	MSD	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0MSD	P177800M241802A	MSD	METHOD	8315A	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0MSD	P177800M320437A	MSD	3550B	8015B	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0MSD	P177800M321432A	MSD	3550B	8015M	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0MSD	P177800M321640A	MSD	METHOD	8015B	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0MS	P177800R241318A	MS	3550B	8082	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0MS	P177800R241752A	MS	METHOD	8315A	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0MS	P177800R271318A	MS	METHOD	300.0	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0MS	P177800R271856A	MS	METHOD	9012B	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0MS	P177800R320352A	MS	3550B	8015B	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0MS	P177800R321407A	MS	3550B	8015M	III
04-Jan-2011	SL-146-SA5B-SB-4.0-5.0MS	P177800R321625A	MS	METHOD	8015B	III
04-Jan-2011	TB-010411	6177808	TB	5030B	8015M	III
04-Jan-2011	TB-010411	6177808	TB	5030B	8260B	III
04-Jan-2011	TB-010411	6177808	TB	5030B	8260B SIM	III
04-Jan-2011	SL-056-SA5C-SB-4.0-5.0	6177806	N	3050B	6010B	III
04-Jan-2011	SL-056-SA5C-SB-4.0-5.0	6177806	N	3050B	6020	III
04-Jan-2011	SL-056-SA5C-SB-4.0-5.0	6177806	N	3060A	7199	III
04-Jan-2011	SL-056-SA5C-SB-4.0-5.0	6177806	N	3550B	8082	III
04-Jan-2011	SL-056-SA5C-SB-4.0-5.0	6177806	N	3550B	8270C	III
04-Jan-2011	SL-056-SA5C-SB-4.0-5.0	6177806	N	3550B	8270C SIM	III
04-Jan-2011	SL-056-SA5C-SB-4.0-5.0	6177806	N	5035	8260B	III
04-Jan-2011	SL-056-SA5C-SB-4.0-5.0	6177806	N	5035	8260B SIM	III
04-Jan-2011	SL-056-SA5C-SB-4.0-5.0	6177806	N	Gen Prep	9045M	III
04-Jan-2011	SL-056-SA5C-SB-4.0-5.0	6177806	N	METHOD	300.0	III
04-Jan-2011	SL-056-SA5C-SB-4.0-5.0	6177806	N	METHOD	314.0	III
04-Jan-2011	SL-056-SA5C-SB-4.0-5.0	6177806	N	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Jan-2011	SL-056-SA5C-SB-4.0-5.0MSD	P177806M261350	MSD	3550B	8270C	III
04-Jan-2011	SL-056-SA5C-SB-4.0-5.0MS	P177806R261316	MS	3550B	8270C	III
04-Jan-2011	SL-259-SA5B-SB-4.0-5.0	6177805	N	3050B	6010B	III
04-Jan-2011	SL-259-SA5B-SB-4.0-5.0	6177805	N	3050B	6020	III
04-Jan-2011	SL-259-SA5B-SB-4.0-5.0	6177805	N	3060A	7199	III
04-Jan-2011	SL-259-SA5B-SB-4.0-5.0	6177805	N	3550B	8082	III
04-Jan-2011	SL-259-SA5B-SB-4.0-5.0	6177805	N	3550B	8270C	III
04-Jan-2011	SL-259-SA5B-SB-4.0-5.0	6177805	N	3550B	8270C SIM	III
04-Jan-2011	SL-259-SA5B-SB-4.0-5.0	6177805	N	5035	8260B	III
04-Jan-2011	SL-259-SA5B-SB-4.0-5.0	6177805	N	5035	8260B SIM	III
04-Jan-2011	SL-259-SA5B-SB-4.0-5.0	6177805	N	Gen Prep	9045M	III
04-Jan-2011	SL-259-SA5B-SB-4.0-5.0	6177805	N	METHOD	300.0	III
04-Jan-2011	SL-259-SA5B-SB-4.0-5.0	6177805	N	METHOD	314.0	III
04-Jan-2011	SL-259-SA5B-SB-4.0-5.0	6177805	N	METHOD	7471A	III
04-Jan-2011	SL-056-SA5C-SB-9.0-10	6177807	N	3050B	6010B	III
04-Jan-2011	SL-056-SA5C-SB-9.0-10	6177807	N	3050B	6020	III
04-Jan-2011	SL-056-SA5C-SB-9.0-10	6177807	N	3060A	7199	III
04-Jan-2011	SL-056-SA5C-SB-9.0-10	6177807	N	3550B	8082	III
04-Jan-2011	SL-056-SA5C-SB-9.0-10	6177807	N	3550B	8270C	III
04-Jan-2011	SL-056-SA5C-SB-9.0-10	6177807	N	3550B	8270C SIM	III
04-Jan-2011	SL-056-SA5C-SB-9.0-10	6177807	N	Gen Prep	9045M	III
04-Jan-2011	SL-056-SA5C-SB-9.0-10	6177807	N	METHOD	300.0	III
04-Jan-2011	SL-056-SA5C-SB-9.0-10	6177807	N	METHOD	314.0	III
04-Jan-2011	SL-056-SA5C-SB-9.0-10	6177807	N	METHOD	7471A	III
04-Jan-2011	SL-056-SA5C-SB-9.0-10DUP	P177807D290815A	DUP	Gen Prep	9045M	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-036-SA5C-SS-0.0-0.5

Collected: 1/4/2011 10:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	11.4		0.95	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-039-SA5C-SS-0.0-0.5

Collected: 1/4/2011 9:48:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	13.0		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-056-SA5C-SB-4.0-5.0

Collected: 1/4/2011 2:16:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-056-SA5C-SB-9.0-10

Collected: 1/4/2011 4:05:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-097-SA5C-SS-0.0-0.5

Collected: 1/4/2011 11:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.95	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-140-SA5B-SS-0.0-0.5

Collected: 1/4/2011 9:18:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.93	U	0.93	MDL	1.2	PQL	mg/Kg	UJ	Q

Sample ID: SL-146-SA5B-SB-4.0-5.0

Collected: 1/4/2011 11:58:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.0		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-259-SA5B-SB-4.0-5.0

Collected: 1/4/2011 3:02:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.88	U	0.88	MDL	1.1	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-036-SA5C-SS-0.0-0.5

Collected: 1/4/2011 10:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	228		0.0902	MDL	0.578	PQL	mg/Kg	J	E
PHOSPHORUS	170		0.647	MDL	11.6	PQL	mg/Kg	J	Q
POTASSIUM	2130		20.8	MDL	57.8	PQL	mg/Kg	J	Q
TIN	2.68	J	1.16	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	2.21	J	0.971	MDL	5.78	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5C-SS-0.0-0.5

Collected: 1/4/2011 9:48:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	226		0.0884	MDL	0.566	PQL	mg/Kg	J	E
PHOSPHORUS	184		0.634	MDL	11.3	PQL	mg/Kg	J	Q
POTASSIUM	2150		20.4	MDL	56.6	PQL	mg/Kg	J	Q
TIN	2.66	J	1.13	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	2.28	J	0.952	MDL	5.66	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA5C-SB-4.0-5.0

Collected: 1/4/2011 2:16:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	534		0.0914	MDL	0.586	PQL	mg/Kg	J	E
PHOSPHORUS	444		0.657	MDL	11.7	PQL	mg/Kg	J	Q
POTASSIUM	3710		21.1	MDL	58.6	PQL	mg/Kg	J	Q
SODIUM	115	J	43.7	MDL	117	PQL	mg/Kg	J	Z
TIN	3.01	J	1.17	MDL	11.7	PQL	mg/Kg	U	B
Zirconium	2.55	J	0.985	MDL	5.86	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA5C-SB-9.0-10

Collected: 1/4/2011 4:05:00 PM

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.33	J	0.981	MDL	5.51	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-056-SA5C-SB-9.0-10

Collected: 1/4/2011 4:05:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	505		0.0860	MDL	0.551	PQL	mg/Kg	J	E
PHOSPHORUS	239		0.617	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	4900		19.8	MDL	55.1	PQL	mg/Kg	J	Q
TIN	2.72	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.80	J	0.926	MDL	5.51	PQL	mg/Kg	J	Z

Sample ID: SL-097-SA5C-SS-0.0-0.5

Collected: 1/4/2011 11:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	640		0.0926	MDL	0.594	PQL	mg/Kg	J	E
PHOSPHORUS	194		0.665	MDL	11.9	PQL	mg/Kg	J	Q
POTASSIUM	2270		21.4	MDL	59.4	PQL	mg/Kg	J	Q
TIN	3.00	J	1.19	MDL	11.9	PQL	mg/Kg	U	B
Zirconium	2.40	J	0.998	MDL	5.94	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA5B-SS-0.0-0.5

Collected: 1/4/2011 9:18:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	253		0.0869	MDL	0.557	PQL	mg/Kg	J	E
PHOSPHORUS	335		0.624	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	2450		20.1	MDL	55.7	PQL	mg/Kg	J	Q
SODIUM	105	J	41.6	MDL	111	PQL	mg/Kg	J	Z
TIN	2.52	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.26	J	0.936	MDL	5.57	PQL	mg/Kg	J	Z

Sample ID: SL-146-SA5B-SB-4.0-5.0

Collected: 1/4/2011 11:58:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.42	J	1.01	MDL	5.66	PQL	mg/Kg	J	Z

Sample ID: SL-146-SA5B-SB-4.0-5.0

Collected: 1/4/2011 11:58:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	380		0.0883	MDL	0.566	PQL	mg/Kg	J	E
PHOSPHORUS	343		0.634	MDL	11.3	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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ADR version 1.3.0.71

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-146-SA5B-SB-4.0-5.0

Collected: 1/4/2011 11:58:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2720		20.4	MDL	56.6	PQL	mg/Kg	J	Q
TIN	3.05	J	1.13	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	2.27	J	0.951	MDL	5.66	PQL	mg/Kg	J	Z

Sample ID: SL-259-SA5B-SB-4.0-5.0

Collected: 1/4/2011 3:02:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	344		0.0842	MDL	0.540	PQL	mg/Kg	J	E
PHOSPHORUS	375		0.605	MDL	10.8	PQL	mg/Kg	J	Q
POTASSIUM	2690		19.4	MDL	54.0	PQL	mg/Kg	J	Q
TIN	2.54	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.60	J	0.907	MDL	5.40	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-036-SA5C-SS-0.0-0.5

Collected: 1/4/2011 10:15:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.134	J	0.0471	MDL	0.471	PQL	mg/Kg	J	Z

Sample ID: SL-036-SA5C-SS-0.0-0.5

Collected: 1/4/2011 10:15:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.531		0.0589	MDL	0.118	PQL	mg/Kg	J	E

Sample ID: SL-036-SA5C-SS-0.0-0.5

Collected: 1/4/2011 10:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.197	J	0.0707	MDL	0.236	PQL	mg/Kg	UJ	B, Q
ARSENIC	6.24		0.0707	MDL	0.471	PQL	mg/Kg	J	Q, Q, E
CADMIUM	0.0901	J	0.0424	MDL	0.118	PQL	mg/Kg	J	Z
CHROMIUM	24.8		0.141	MDL	0.471	PQL	mg/Kg	J	A
COBALT	5.33		0.0236	MDL	0.118	PQL	mg/Kg	J	A
COPPER	8.37		0.0778	MDL	0.471	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/22/2011 12:36:17 PM

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-036-SA5C-SS-0.0-0.5

Collected: 1/4/2011 10:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	6.97		0.0123	MDL	0.236	PQL	mg/Kg	J	Q, E
SILVER	0.0358	J	0.0141	MDL	0.118	PQL	mg/Kg	J	Z
VANADIUM	53.4		0.0259	MDL	0.118	PQL	mg/Kg	J	E

Sample ID: SL-039-SA5C-SS-0.0-0.5

Collected: 1/4/2011 9:48:00 AM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.125	J	0.0458	MDL	0.458	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5C-SS-0.0-0.5

Collected: 1/4/2011 9:48:00 AM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.620		0.0572	MDL	0.114	PQL	mg/Kg	J	E

Sample ID: SL-039-SA5C-SS-0.0-0.5

Collected: 1/4/2011 9:48:00 AM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.156	J	0.0686	MDL	0.229	PQL	mg/Kg	UJ	B, Q
ARSENIC	5.66		0.0686	MDL	0.458	PQL	mg/Kg	J	Q, Q, E
CHROMIUM	25.0		0.137	MDL	0.458	PQL	mg/Kg	J	A
COBALT	7.17		0.0229	MDL	0.114	PQL	mg/Kg	J	A
COPPER	8.93		0.0755	MDL	0.458	PQL	mg/Kg	J	A
LEAD	7.78		0.0119	MDL	0.229	PQL	mg/Kg	J	Q, E
SILVER	0.0310	J	0.0137	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	56.1		0.0252	MDL	0.114	PQL	mg/Kg	J	E

Sample ID: SL-056-SA5C-SB-4.0-5.0

Collected: 1/4/2011 2:16:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.210	J	0.0469	MDL	0.469	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA5C-SB-4.0-5.0

Collected: 1/4/2011 2:16:00 PM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.35		0.0586	MDL	0.117	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-056-SA5C-SB-4.0-5.0

Collected: 1/4/2011 2:16:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.247		0.0703	MDL	0.234	PQL	mg/Kg	UJ	B, Q
ARSENIC	10.0		0.0703	MDL	0.469	PQL	mg/Kg	J	Q, Q, E
CHROMIUM	54.0		0.141	MDL	0.469	PQL	mg/Kg	J	A
COBALT	11.0		0.0234	MDL	0.117	PQL	mg/Kg	J	A
COPPER	15.0		0.0774	MDL	0.469	PQL	mg/Kg	J	A
LEAD	10.8		0.0122	MDL	0.234	PQL	mg/Kg	J	Q, E
SILVER	0.0907	J	0.0141	MDL	0.117	PQL	mg/Kg	J	Z
VANADIUM	75.5		0.0258	MDL	0.117	PQL	mg/Kg	J	E

Sample ID: SL-056-SA5C-SB-9.0-10

Collected: 1/4/2011 4:05:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.274	J	0.0450	MDL	0.450	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA5C-SB-9.0-10

Collected: 1/4/2011 4:05:00 PM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.694		0.0562	MDL	0.112	PQL	mg/Kg	J	E

Sample ID: SL-056-SA5C-SB-9.0-10

Collected: 1/4/2011 4:05:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.242		0.0674	MDL	0.225	PQL	mg/Kg	UJ	B, Q
ARSENIC	6.27		0.0674	MDL	0.450	PQL	mg/Kg	J	Q, Q, E
CHROMIUM	36.5		0.135	MDL	0.450	PQL	mg/Kg	J	A
COBALT	9.75		0.0225	MDL	0.112	PQL	mg/Kg	J	A
COPPER	16.2		0.0742	MDL	0.450	PQL	mg/Kg	J	A
LEAD	11.5		0.0117	MDL	0.225	PQL	mg/Kg	J	Q, E
SILVER	0.0365	J	0.0135	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	75.7		0.0247	MDL	0.112	PQL	mg/Kg	J	E

Sample ID: SL-097-SA5C-SS-0.0-0.5

Collected: 1/4/2011 11:12:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.149	J	0.0475	MDL	0.475	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-097-SA5C-SS-0.0-0.5

Collected: 1/4/2011 11:12:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.680		0.0594	MDL	0.119	PQL	mg/Kg	J	E

Sample ID: SL-097-SA5C-SS-0.0-0.5

Collected: 1/4/2011 11:12:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.270		0.0713	MDL	0.238	PQL	mg/Kg	UJ	B, Q
ARSENIC	9.17		0.0713	MDL	0.475	PQL	mg/Kg	J	Q, Q, E
CHROMIUM	36.1		0.143	MDL	0.475	PQL	mg/Kg	J	A
COBALT	7.09		0.0238	MDL	0.119	PQL	mg/Kg	J	A
COPPER	14.4		0.0784	MDL	0.475	PQL	mg/Kg	J	A
LEAD	10.2		0.0124	MDL	0.238	PQL	mg/Kg	J	Q, E
SILVER	0.0606	J	0.0143	MDL	0.119	PQL	mg/Kg	J	Z
VANADIUM	74.7		0.0261	MDL	0.119	PQL	mg/Kg	J	E

Sample ID: SL-140-SA5B-SS-0.0-0.5

Collected: 1/4/2011 9:18:00 AM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0459	MDL	0.459	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA5B-SS-0.0-0.5

Collected: 1/4/2011 9:18:00 AM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.322		0.0574	MDL	0.115	PQL	mg/Kg	J	E

Sample ID: SL-140-SA5B-SS-0.0-0.5

Collected: 1/4/2011 9:18:00 AM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.143	J	0.0688	MDL	0.229	PQL	mg/Kg	UJ	B, Q
ARSENIC	3.13		0.0688	MDL	0.459	PQL	mg/Kg	J	Q, Q, E
CHROMIUM	13.7		0.138	MDL	0.459	PQL	mg/Kg	J	A
COBALT	4.85		0.0229	MDL	0.115	PQL	mg/Kg	J	A
COPPER	9.26		0.0757	MDL	0.459	PQL	mg/Kg	J	A
LEAD	4.74		0.0119	MDL	0.229	PQL	mg/Kg	J	Q, E
SILVER	0.0290	J	0.0138	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	33.8		0.0252	MDL	0.115	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-146-SA5B-SB-4.0-5.0

Collected: 1/4/2011 11:58:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.155	J	0.0453	MDL	0.453	PQL	mg/Kg	J	Z

Sample ID: SL-146-SA5B-SB-4.0-5.0

Collected: 1/4/2011 11:58:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.824		0.0566	MDL	0.113	PQL	mg/Kg	J	E

Sample ID: SL-146-SA5B-SB-4.0-5.0

Collected: 1/4/2011 11:58:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.200	J	0.0679	MDL	0.226	PQL	mg/Kg	UJ	B, Q
ARSENIC	7.47		0.0679	MDL	0.453	PQL	mg/Kg	J	Q, Q, E
CADMIUM	0.0987	J	0.0408	MDL	0.113	PQL	mg/Kg	J	Z
CHROMIUM	26.3		0.136	MDL	0.453	PQL	mg/Kg	J	A
COBALT	6.95		0.0226	MDL	0.113	PQL	mg/Kg	J	A
COPPER	9.78		0.0747	MDL	0.453	PQL	mg/Kg	J	A
LEAD	7.69		0.0118	MDL	0.226	PQL	mg/Kg	J	Q, E
SILVER	0.0461	J	0.0136	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	55.4		0.0249	MDL	0.113	PQL	mg/Kg	J	E

Sample ID: SL-259-SA5B-SB-4.0-5.0

Collected: 1/4/2011 3:02:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.151	J	0.0436	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SL-259-SA5B-SB-4.0-5.0

Collected: 1/4/2011 3:02:00 PM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.419		0.0545	MDL	0.109	PQL	mg/Kg	J	E

Sample ID: SL-259-SA5B-SB-4.0-5.0

Collected: 1/4/2011 3:02:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.119	J	0.0654	MDL	0.218	PQL	mg/Kg	UJ	B, Q
ARSENIC	8.29		0.0654	MDL	0.436	PQL	mg/Kg	J	Q, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-259-SA5B-SB-4.0-5.0

Collected: 1/4/2011 3:02:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.102	J	0.0393	MDL	0.109	PQL	mg/Kg	J	Z
CHROMIUM	20.6		0.131	MDL	0.436	PQL	mg/Kg	J	A
COBALT	6.85		0.0218	MDL	0.109	PQL	mg/Kg	J	A
COPPER	8.45		0.0720	MDL	0.436	PQL	mg/Kg	J	A
LEAD	5.80		0.0113	MDL	0.218	PQL	mg/Kg	J	Q, E
VANADIUM	45.9		0.0240	MDL	0.109	PQL	mg/Kg	J	E

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-036-SA5C-SS-0.0-0.5

Collected: 1/4/2011 10:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5C-SS-0.0-0.5

Collected: 1/4/2011 9:48:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA5C-SB-4.0-5.0

Collected: 1/4/2011 2:16:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.76	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA5C-SB-9.0-10

Collected: 1/4/2011 4:05:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.65	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-097-SA5C-SS-0.0-0.5

Collected: 1/4/2011 11:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.43	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-140-SA5B-SS-0.0-0.5

Collected: 1/4/2011 9:18:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-146-SA5B-SB-4.0-5.0

Collected: 1/4/2011 11:58:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-039-SA5C-SS-0.0-0.5

Collected: 1/4/2011 9:48:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0041	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA5B-SS-0.0-0.5

Collected: 1/4/2011 9:18:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0061	J	0.0033	MDL	0.114	PQL	mg/Kg	J	Z

Sample ID: SL-146-SA5B-SB-4.0-5.0

Collected: 1/4/2011 11:58:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0078	J	0.0033	MDL	0.113	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C

Matrix: SO

Sample ID: SL-146-SA5B-SB-4.0-5.0

Collected: 1/4/2011 11:58:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	25.8	J	19.3	MDL	38.5	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA								
Method:	8081A	Matrix:	SO						

Sample ID: SL-097-SA5C-SS-0.0-0.5 Collected: 1/4/2011 11:12:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	0.10	J	0.078	MDL	0.40	PQL	ug/Kg	J	Z
ENDOSULFAN SULFATE	0.12	J	0.078	MDL	0.40	PQL	ug/Kg	J	Z

Sample ID: SL-140-SA5B-SS-0.0-0.5 Collected: 1/4/2011 9:18:00 AM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR	0.070	U	0.070	MDL	0.19	PQL	ug/Kg	R	Q

Method Category:	SVOA								
Method:	8082	Matrix:	SO						

Sample ID: SL-036-SA5C-SS-0.0-0.5 Collected: 1/4/2011 10:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.69	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-039-SA5C-SS-0.0-0.5 Collected: 1/4/2011 9:48:00 AM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.76	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-056-SA5C-SB-4.0-5.0 Collected: 1/4/2011 2:16:00 PM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.50	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
AROCLOR 1260	1.2	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5460	1.8	J	1.2	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-056-SA5C-SB-9.0-10 Collected: 1/4/2011 4:05:00 PM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.91	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	1.5	J	1.1	MDL	3.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA
Method:	8082
Matrix:	SO

Sample ID: SL-140-SA5B-SS-0.0-0.5 Collected: 1/4/2011 9:18:00 AM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.8	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5460	2.7	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z

Method Category:	SVOA
Method:	8151A
Matrix:	SO

Sample ID: SL-036-SA5C-SS-0.0-0.5 Collected: 1/4/2011 10:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	19	U	19	MDL	57	PQL	ug/Kg	R	L

Sample ID: SL-039-SA5C-SS-0.0-0.5 Collected: 1/4/2011 9:48:00 AM Analysis Type: RES-BASE/NEUTRAL Dilution: 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	18	U	18	MDL	55	PQL	ug/Kg	R	L

Sample ID: SL-097-SA5C-SS-0.0-0.5 Collected: 1/4/2011 11:12:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	4.8	U	4.8	MDL	14	PQL	ug/Kg	R	L

Sample ID: SL-140-SA5B-SS-0.0-0.5 Collected: 1/4/2011 9:18:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.6	J	0.72	MDL	2.0	PQL	ug/Kg	J	Z
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L

Method Category:	SVOA
Method:	8270C
Matrix:	SO

Sample ID: SL-039-SA5C-SS-0.0-0.5 Collected: 1/4/2011 9:48:00 AM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	36	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	36	J	19	MDL	190	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-056-SA5C-SB-4.0-5.0

Collected: 1/4/2011 2:16:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1400	U	1400	MDL	3900	PQL	ug/Kg	UJ	Q

Sample ID: SL-056-SA5C-SB-9.0-10

Collected: 1/4/2011 4:05:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	140	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-140-SA5B-SS-0.0-0.5

Collected: 1/4/2011 9:18:00 AM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	74	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	40	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	51	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	20	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	31	J	19	MDL	190	PQL	ug/Kg	J	Z
CHRYSENE	66	J	19	MDL	190	PQL	ug/Kg	J	Z
FLUORANTHENE	170	J	19	MDL	190	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	22	J	19	MDL	190	PQL	ug/Kg	J	Z
PHENANTHRENE	53	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	180	J	19	MDL	190	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-036-SA5C-SS-0.0-0.5

Collected: 1/4/2011 10:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	6.4	J	4.0	MDL	9.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	9.4	J	4.0	MDL	9.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	7.1	J	4.0	MDL	9.9	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	4.6	J	4.0	MDL	9.9	PQL	ug/Kg	J	Z
PYRENE	4.1	J	4.0	MDL	9.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-039-SA5C-SS-0.0-0.5

Collected: 1/4/2011 9:48:00 AM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	8.6	J	3.8	MDL	9.5	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	5.6	J	3.8	MDL	9.5	PQL	ug/Kg	J	Z
NAPHTHALENE	4.0	J	3.8	MDL	9.5	PQL	ug/Kg	J	Z
PHENANTHRENE	4.3	J	3.8	MDL	9.5	PQL	ug/Kg	J	Z
PYRENE	6.2	J	3.8	MDL	9.5	PQL	ug/Kg	J	Z

Sample ID: SL-056-SA5C-SB-9.0-10

Collected: 1/4/2011 4:05:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.8	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.8	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-097-SA5C-SS-0.0-0.5

Collected: 1/4/2011 11:12:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	6.0	J	4.0	MDL	9.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	6.3	J	4.0	MDL	9.9	PQL	ug/Kg	J	Z
CHRYSENE	4.7	J	2.0	MDL	9.9	PQL	ug/Kg	J	Z

Sample ID: SL-140-SA5B-SS-0.0-0.5

Collected: 1/4/2011 9:18:00 AM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.46	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	52		7.0	MDL	21	PQL	ug/Kg	J	Q
DIBENZO(A,H)ANTHRACENE	1.5	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	VOA	
Method:	8260B	Matrix: SO

Sample ID: SL-056-SA5C-SB-4.0-5.0 Collected: 1/4/2011 2:16:00 PM Analysis Type: RES Dilution: 0.85

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.66	J	0.24	MDL	4.0	PQL	ug/Kg	J	Z

Sample ID: SL-146-SA5B-SB-4.0-5.0 Collected: 1/4/2011 11:58:00 Analysis Type: RES Dilution: 0.8

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.39	J	0.22	MDL	3.7	PQL	ug/Kg	J	Z

Sample ID: SL-259-SA5B-SB-4.0-5.0 Collected: 1/4/2011 3:02:00 PM Analysis Type: RES Dilution: 1.04

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.50	J	0.27	MDL	4.6	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

ENCLOSURE I

Quality Control Outlier Reports

DE052

Method Blank Outlier Report

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: DE052_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P00608BB220858	1/13/2011 8:58:00 AM	PHOSPHORUS TIN	1.78 mg/Kg 1.51 mg/Kg	SL-036-SA5C-SS-0.0-0.5 SL-039-SA5C-SS-0.0-0.5 SL-056-SA5C-SB-4.0-5.0 SL-056-SA5C-SB-9.0-10 SL-097-SA5C-SS-0.0-0.5 SL-140-SA5B-SS-0.0-0.5 SL-146-SA5B-SB-4.0-5.0 SL-259-SA5B-SB-4.0-5.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-036-SA5C-SS-0.0-0.5(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-039-SA5C-SS-0.0-0.5(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SL-056-SA5C-SB-4.0-5.0(RES)	TIN	3.01 mg/Kg	3.01U mg/Kg
SL-056-SA5C-SB-9.0-10(RES)	TIN	2.72 mg/Kg	2.72U mg/Kg
SL-097-SA5C-SS-0.0-0.5(RES)	TIN	3.00 mg/Kg	3.00U mg/Kg
SL-140-SA5B-SS-0.0-0.5(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-146-SA5B-SB-4.0-5.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-259-SA5B-SB-4.0-5.0(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg

Method: 8151A
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P06067AB241046A	1/10/2011 10:46:00 AM	MCPP	100 ug/Kg	SL-036-SA5C-SS-0.0-0.5 SL-039-SA5C-SS-0.0-0.5 SL-097-SA5C-SS-0.0-0.5 SL-140-SA5B-SS-0.0-0.5

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB38B211250A	1/7/2011 12:50:00 PM	TOLUENE	0.15 ug/Kg	SL-056-SA5C-SB-4.0-5.0 SL-146-SA5B-SB-4.0-5.0 SL-259-SA5B-SB-4.0-5.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: DE052_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-056-SA5C-SB-4.0-5.0MSD (SL-056-SA5C-SB-4.0-5.0)	BENZIDINE	-	27	35.00-141.00	-	BENZIDINE	J (all detects) UJ (all non-detects)

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-140-SA5B-SS-0.0-0.5MS (SL-140-SA5B-SS-0.0-0.5)	ACENAPHTHENE Dimethylphthalate	107 119	- -	63.00-105.00 74.00-118.00	- -	ACENAPHTHENE Dimethylphthalate	J(all detects)
SL-140-SA5B-SS-0.0-0.5MS SL-140-SA5B-SS-0.0-0.5MSD (SL-140-SA5B-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT	4	11	39.00-167.00	-	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects) UJ(all non-detects)

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-146-SA5B-SB-4.0-5.0MS (SL-036-SA5C-SS-0.0-0.5 SL-039-SA5C-SS-0.0-0.5 SL-056-SA5C-SB-4.0-5.0 SL-056-SA5C-SB-9.0-10 SL-097-SA5C-SS-0.0-0.5 SL-140-SA5B-SS-0.0-0.5 SL-146-SA5B-SB-4.0-5.0 SL-259-SA5B-SB-4.0-5.0)	FLUORIDE	74	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-140-SA5B-SS-0.0-0.5MSD (SL-140-SA5B-SS-0.0-0.5)	HEPTACHLOR EPOXIDE	-	-	13.00-157.00	69 (50.00)	HEPTACHLOR EPOXIDE	J(all detects)
SL-140-SA5B-SS-0.0-0.5MS SL-140-SA5B-SS-0.0-0.5MSD (SL-140-SA5B-SS-0.0-0.5)	HEPTACHLOR	0	-	13.00-126.00	200 (50.00)	HEPTACHLOR	J(all detects) R(all non-detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-140-SA5B-SS-0.0-0.5MSD (SL-140-SA5B-SS-0.0-0.5)	DALAPON	-	-	12.00-86.00	87 (50.00)	DALAPON	J(all detects)

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Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: DE052_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-146-SA5B-SB-4.0-5.0DUP (SL-036-SA5C-SS-0.0-0.5 SL -039-SA5C-SS-0.0-0.5 SL -056-SA5C-SB-4.0-5.0 SL -056-SA5C-SB-9.0-10 SL -097-SA5C-SS-0.0-0.5 SL -140-SA5B-SS-0.0-0.5 SL -146-SA5B-SB-4.0-5.0 SL -259-SA5B-SB-4.0-5.0)	FLUORIDE Nitrate-NO3	30 26	20.00 20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: DE052_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10050AQ242003A (SL-036-SA5C-SS-0.0-0.5 SL-039-SA5C-SS-0.0-0.5 SL-097-SA5C-SS-0.0-0.5 SL-140-SA5B-SS-0.0-0.5)	ENDOSULFAN II	137	-	63.00-127.00	-	ENDOSULFAN II	J (all detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10067AQ241114A (SL-036-SA5C-SS-0.0-0.5 SL-039-SA5C-SS-0.0-0.5 SL-097-SA5C-SS-0.0-0.5 SL-140-SA5B-SS-0.0-0.5)	DINOSEB	7	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 8260B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1B38Q211421A (SL-056-SA5C-SB-4.0-5.0 SL-146-SA5B-SB-4.0-5.0 SL-259-SA5B-SB-4.0-5.0)	Chlorotrifluoroethylene	138	-	22.00-131.00	-	Chlorotrifluoroethylene	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: PrepDE052_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-039-SA5C-SS- 0.0-0.5	DECACHLOROBIPHENYL	413	20.00-120.00	All Target Analytes	No Qual Diluted Out

Reporting Limit Outliers

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: DE052_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-146-SA5B-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	25.8	38.5	PQL	ng/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-036-SA5C-SS-0.0-0.5	TIN	J	2.68	11.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.21	5.78	PQL	mg/Kg	
SL-039-SA5C-SS-0.0-0.5	TIN	J	2.66	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.28	5.66	PQL	mg/Kg	
SL-056-SA5C-SB-4.0-5.0	SODIUM	J	115	117	PQL	mg/Kg	J (all detects)
	TIN	J	3.01	11.7	PQL	mg/Kg	
	Zirconium	J	2.55	5.86	PQL	mg/Kg	
SL-056-SA5C-SB-9.0-10	BORON	J	5.33	5.51	PQL	mg/Kg	J (all detects)
	TIN	J	2.72	11.0	PQL	mg/Kg	
	Zirconium	J	3.80	5.51	PQL	mg/Kg	
SL-097-SA5C-SS-0.0-0.5	TIN	J	3.00	11.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.40	5.94	PQL	mg/Kg	
SL-140-SA5B-SS-0.0-0.5	SODIUM	J	105	111	PQL	mg/Kg	J (all detects)
	TIN	J	2.52	11.1	PQL	mg/Kg	
	Zirconium	J	1.26	5.57	PQL	mg/Kg	
SL-146-SA5B-SB-4.0-5.0	BORON	J	1.42	5.66	PQL	mg/Kg	J (all detects)
	TIN	J	3.05	11.3	PQL	mg/Kg	
	Zirconium	J	2.27	5.66	PQL	mg/Kg	
SL-259-SA5B-SB-4.0-5.0	TIN	J	2.54	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.60	5.40	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-036-SA5C-SS-0.0-0.5	ANTIMONY	J	0.197	0.236	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0901	0.118	PQL	mg/Kg	
	SELENIUM	J	0.134	0.471	PQL	mg/Kg	
	SILVER	J	0.0358	0.118	PQL	mg/Kg	
SL-039-SA5C-SS-0.0-0.5	ANTIMONY	J	0.156	0.229	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.125	0.458	PQL	mg/Kg	
	SILVER	J	0.0310	0.114	PQL	mg/Kg	
SL-056-SA5C-SB-4.0-5.0	SELENIUM	J	0.210	0.469	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0907	0.117	PQL	mg/Kg	
SL-056-SA5C-SB-9.0-10	SELENIUM	J	0.274	0.450	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0365	0.112	PQL	mg/Kg	
SL-097-SA5C-SS-0.0-0.5	SELENIUM	J	0.149	0.475	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0606	0.119	PQL	mg/Kg	
SL-140-SA5B-SS-0.0-0.5	ANTIMONY	J	0.143	0.229	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.115	0.459	PQL	mg/Kg	
	SILVER	J	0.0290	0.115	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: DE052_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-146-SA5B-SB-4.0-5.0	ANTIMONY	J	0.200	0.226	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0987	0.113	PQL	mg/Kg	
	SELENIUM	J	0.155	0.453	PQL	mg/Kg	
	SILVER	J	0.0461	0.113	PQL	mg/Kg	
SL-259-SA5B-SB-4.0-5.0	ANTIMONY	J	0.119	0.218	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.102	0.109	PQL	mg/Kg	
	SELENIUM	J	0.151	0.436	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-036-SA5C-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.42	1.2	PQL	mg/Kg	J (all detects)
SL-039-SA5C-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.33	1.1	PQL	mg/Kg	J (all detects)
SL-056-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.76	1.2	PQL	mg/Kg	J (all detects)
SL-056-SA5C-SB-9.0-10	HEXAVALENT CHROMIUM	J	0.65	1.1	PQL	mg/Kg	J (all detects)
SL-097-SA5C-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.43	1.2	PQL	mg/Kg	J (all detects)
SL-140-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.37	1.2	PQL	mg/Kg	J (all detects)
SL-146-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.48	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-039-SA5C-SS-0.0-0.5	MERCURY	J	0.0041	0.111	PQL	mg/Kg	J (all detects)
SL-140-SA5B-SS-0.0-0.5	MERCURY	J	0.0061	0.114	PQL	mg/Kg	J (all detects)
SL-146-SA5B-SB-4.0-5.0	MERCURY	J	0.0078	0.113	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA5C-SS-0.0-0.5	DIELDRIN	J	0.10	0.40	PQL	ug/Kg	J (all detects)
	ENDOSULFAN SULFATE	J	0.12	0.40	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-036-SA5C-SS-0.0-0.5	AROCLOR 1260	J	0.69	2.0	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: DE052_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-039-SA5C-SS-0.0-0.5	AROCOLOR 1260	J	0.76	1.9	PQL	ug/Kg	J (all detects)
SL-056-SA5C-SB-4.0-5.0	AROCOLOR 1254	J	0.50	2.0	PQL	ug/Kg	J (all detects)
	AROCOLOR 1260	J	1.2	2.0	PQL	ug/Kg	
	Aroclor 5460	J	1.8	3.9	PQL	ug/Kg	
SL-056-SA5C-SB-9.0-10	AROCOLOR 1260	J	0.91	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.5	3.7	PQL	ug/Kg	
SL-140-SA5B-SS-0.0-0.5	AROCOLOR 1260	J	1.8	2.0	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.7	3.8	PQL	ug/Kg	

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-140-SA5B-SS-0.0-0.5	2,4-DB	J	1.6	2.0	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-056-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.66	4.0	PQL	ug/Kg	J (all detects)
SL-146-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.39	3.7	PQL	ug/Kg	J (all detects)
SL-259-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.50	4.6	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-039-SA5C-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	36	190	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	36	190	PQL	ug/Kg	
SL-056-SA5C-SB-9.0-10	Di-n-butylphthalate	J	140	190	PQL	ug/Kg	J (all detects)
SL-140-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	74	190	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	40	190	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	51	190	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	20	190	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	31	190	PQL	ug/Kg	
	CHRYSENE	J	66	190	PQL	ug/Kg	
	FLUORANTHENE	J	170	190	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	22	190	PQL	ug/Kg	
	PHENANTHRENE	J	53	190	PQL	ug/Kg	
	PYRENE	J	180	190	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE052

Laboratory: LL

EDD Filename: DE052_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-036-SA5C-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	6.4	9.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	9.4	9.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	7.1	9.9	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	4.6	9.9	PQL	ug/Kg	
	PYRENE	J	4.1	9.9	PQL	ug/Kg	
SL-039-SA5C-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	8.6	9.5	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	5.6	9.5	PQL	ug/Kg	
	NAPHTHALENE	J	4.0	9.5	PQL	ug/Kg	
	PHENANTHRENE	J	4.3	9.5	PQL	ug/Kg	
	PYRENE	J	6.2	9.5	PQL	ug/Kg	
SL-056-SA5C-SB-9.0-10	BENZO(A)ANTHRACENE	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.8	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	1.2	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.2	1.9	PQL	ug/Kg	
SL-097-SA5C-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	6.0	9.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	6.3	9.9	PQL	ug/Kg	
	CHRYSENE	J	4.7	9.9	PQL	ug/Kg	
SL-140-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.46	1.9	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.5	1.9	PQL	ug/Kg	

LDC #: 25337M4 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: DE052 ADR
 Laboratory: Lancaster Laboratories

Date: 5/5/11
 Page: 1 of 1
 Reviewer: CR
 2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020X/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	→ RPP Data
VI.	Matrix Spike Analysis (SDG: DE053)	N	MSD (Al, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn) (4x)
VII.	Duplicate Sample Analysis	N	Dup (Sb, Cd, Se, Zr, Mo) (5x)
VIII.	Laboratory Control Samples (LCS)	N	LCS Pre. → Difference out: J/UT
IX.	Internal Standard (ICP-MS)	N	0.2477 (SO, Z)
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution (SDG: DE053)	SW	Cr-13%, Co-16%, Cu-12% : J/UT
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	—	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

Soil

1	SL-146-SA5B-SB-4.0-5.0	11		21		31	
2	SL-140-SA5C-SS-0.0-0.5	12		22		32	
3	SL-039-SA5C-SS-0.0-0.5	13		23		33	
4	SL-036-SA5C-SS-0.0-0.5	14		24		34	
5	SL-097-SA5C-SS-0.0-0.5	15		25		35	
6	SL-259-SA5B-SB-4.0-5.0	16		26		36	
7	SL-056-SA5C-SB-4.0-5.0	17		27		37	
8	SL-056-SA5C-SB-9.0-10.0	18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

SAMPLE DELIVERY GROUP

DE053

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jan-2011	TB-010511	6178523	TB	5030B	8015M	III
05-Jan-2011	TB-010511	6178523	TB	5030B	8260B	III
05-Jan-2011	TB-010511	6178523	TB	5030B	8260B SIM	III
05-Jan-2011	SL-038-SA5C-SB-4.0-5.0	6178513	N	3050B	6010B	III
05-Jan-2011	SL-038-SA5C-SB-4.0-5.0	6178513	N	3050B	6020	III
05-Jan-2011	SL-038-SA5C-SB-4.0-5.0	6178513	N	3060A	7199	III
05-Jan-2011	SL-038-SA5C-SB-4.0-5.0	6178513	N	3550B	8082	III
05-Jan-2011	SL-038-SA5C-SB-4.0-5.0	6178513	N	3550B	8270C	III
05-Jan-2011	SL-038-SA5C-SB-4.0-5.0	6178513	N	3550B	8270C SIM	III
05-Jan-2011	SL-038-SA5C-SB-4.0-5.0	6178513	N	5035	8260B	III
05-Jan-2011	SL-038-SA5C-SB-4.0-5.0	6178513	N	5035	8260B SIM	III
05-Jan-2011	SL-038-SA5C-SB-4.0-5.0	6178513	N	Gen Prep	9045M	III
05-Jan-2011	SL-038-SA5C-SB-4.0-5.0	6178513	N	METHOD	300.0	III
05-Jan-2011	SL-038-SA5C-SB-4.0-5.0	6178513	N	METHOD	314.0	III
05-Jan-2011	SL-038-SA5C-SB-4.0-5.0	6178513	N	METHOD	7471A	III
05-Jan-2011	SL-038-SA5C-SB-4.0-5.0DUP	P178513D271631B	DUP	METHOD	314.0	III
05-Jan-2011	SL-038-SA5C-SB-4.0-5.0DUP	P178513D271643B	DUP	METHOD	300.0	III
05-Jan-2011	SL-038-SA5C-SB-4.0-5.0MS	P178513R271654B	MS	METHOD	314.0	III
05-Jan-2011	SL-038-SA5C-SB-4.0-5.0MS	P178513R271658B	MS	METHOD	300.0	III
05-Jan-2011	SL-065-SA5B-SB-4.0-5.0	6178514	N	3050B	6010B	III
05-Jan-2011	SL-065-SA5B-SB-4.0-5.0	6178514	N	3050B	6020	III
05-Jan-2011	SL-065-SA5B-SB-4.0-5.0	6178514	N	3060A	7199	III
05-Jan-2011	SL-065-SA5B-SB-4.0-5.0	6178514	N	3550B	8082	III
05-Jan-2011	SL-065-SA5B-SB-4.0-5.0	6178514	N	3550B	8270C	III
05-Jan-2011	SL-065-SA5B-SB-4.0-5.0	6178514	N	3550B	8270C SIM	III
05-Jan-2011	SL-065-SA5B-SB-4.0-5.0	6178514	N	5035	8260B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jan-2011	SL-065-SA5B-SB-4.0-5.0	6178514	N	5035	8260B SIM	III
05-Jan-2011	SL-065-SA5B-SB-4.0-5.0	6178514	N	Gen Prep	9045M	III
05-Jan-2011	SL-065-SA5B-SB-4.0-5.0	6178514	N	METHOD	300.0	III
05-Jan-2011	SL-065-SA5B-SB-4.0-5.0	6178514	N	METHOD	314.0	III
05-Jan-2011	SL-065-SA5B-SB-4.0-5.0	6178514	N	METHOD	7471A	III
05-Jan-2011	SL-065-SA5B-SB-9.0-10.0	6178515	N	3050B	6010B	III
05-Jan-2011	SL-065-SA5B-SB-9.0-10.0	6178515	N	3050B	6020	III
05-Jan-2011	SL-065-SA5B-SB-9.0-10.0	6178515	N	3060A	7199	III
05-Jan-2011	SL-065-SA5B-SB-9.0-10.0	6178515	N	3550B	8082	III
05-Jan-2011	SL-065-SA5B-SB-9.0-10.0	6178515	N	3550B	8270C	III
05-Jan-2011	SL-065-SA5B-SB-9.0-10.0	6178515	N	3550B	8270C SIM	III
05-Jan-2011	SL-065-SA5B-SB-9.0-10.0	6178515	N	Gen Prep	9045M	III
05-Jan-2011	SL-065-SA5B-SB-9.0-10.0	6178515	N	METHOD	300.0	III
05-Jan-2011	SL-065-SA5B-SB-9.0-10.0	6178515	N	METHOD	314.0	III
05-Jan-2011	SL-065-SA5B-SB-9.0-10.0	6178515	N	METHOD	7471A	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	3050B	6010B	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	3050B	6020	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	3060A	7199	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	3546	1625C	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	3550B	8015B	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	3550B	8015M	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	3550B	8082	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	3550B	8270C	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	3550B	8270C SIM	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	5035	8015M	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	5035	8260B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	5035	8260B SIM	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	8330	8330A	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	Gen Prep	9045M	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	METHOD	300.0	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	METHOD	314.0	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	METHOD	7471A	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	METHOD	8015B	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	METHOD	8015M	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	METHOD	8315A	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5	6178519	N	METHOD	9012B	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5MSD	P178519M322108A	MSD	METHOD	8015M	III
05-Jan-2011	SL-070-SA5B-SB-2.5-3.5MS	P178519R322054A	MS	METHOD	8015M	III
05-Jan-2011	SL-137-SA5C-SB-4.5-5.5	6178521	N	3050B	6010B	III
05-Jan-2011	SL-137-SA5C-SB-4.5-5.5	6178521	N	3050B	6020	III
05-Jan-2011	SL-137-SA5C-SB-4.5-5.5	6178521	N	3060A	7199	III
05-Jan-2011	SL-137-SA5C-SB-4.5-5.5	6178521	N	3550B	8082	III
05-Jan-2011	SL-137-SA5C-SB-4.5-5.5	6178521	N	3550B	8270C	III
05-Jan-2011	SL-137-SA5C-SB-4.5-5.5	6178521	N	3550B	8270C SIM	III
05-Jan-2011	SL-137-SA5C-SB-4.5-5.5	6178521	N	5035	8260B	III
05-Jan-2011	SL-137-SA5C-SB-4.5-5.5	6178521	N	5035	8260B SIM	III
05-Jan-2011	SL-137-SA5C-SB-4.5-5.5	6178521	N	Gen Prep	9045M	III
05-Jan-2011	SL-137-SA5C-SB-4.5-5.5	6178521	N	METHOD	300.0	III
05-Jan-2011	SL-137-SA5C-SB-4.5-5.5	6178521	N	METHOD	314.0	III
05-Jan-2011	SL-137-SA5C-SB-4.5-5.5	6178521	N	METHOD	6850	III
05-Jan-2011	SL-137-SA5C-SB-4.5-5.5	6178521	N	METHOD	7471A	III
05-Jan-2011	EB17-SA5C-010511	6178511	EB	3005A	6010B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jan-2011	EB17-SA5C-010511	6178511	EB	3020A	6020	III
05-Jan-2011	EB17-SA5C-010511	6178511	EB	3510C	8082	III
05-Jan-2011	EB17-SA5C-010511	6178511	EB	3510C	8270C	III
05-Jan-2011	EB17-SA5C-010511	6178511	EB	3510C	8270C SIM	III
05-Jan-2011	EB17-SA5C-010511	6178511	EB	Gen Prep	300.0	III
05-Jan-2011	EB17-SA5C-010511	6178511	EB	Gen Prep	314.0	III
05-Jan-2011	EB17-SA5C-010511	6178511	EB	Gen Prep	7199	III
05-Jan-2011	EB17-SA5C-010511	6178511	EB	METHOD	7470A	III
05-Jan-2011	SL-068-SA5B-SB-3.0-4.0	6178517	N	3050B	6010B	III
05-Jan-2011	SL-068-SA5B-SB-3.0-4.0	6178517	N	3050B	6020	III
05-Jan-2011	SL-068-SA5B-SB-3.0-4.0	6178517	N	3060A	7199	III
05-Jan-2011	SL-068-SA5B-SB-3.0-4.0	6178517	N	3550B	8082	III
05-Jan-2011	SL-068-SA5B-SB-3.0-4.0	6178517	N	3550B	8270C	III
05-Jan-2011	SL-068-SA5B-SB-3.0-4.0	6178517	N	3550B	8270C SIM	III
05-Jan-2011	SL-068-SA5B-SB-3.0-4.0	6178517	N	5035	8260B	III
05-Jan-2011	SL-068-SA5B-SB-3.0-4.0	6178517	N	5035	8260B SIM	III
05-Jan-2011	SL-068-SA5B-SB-3.0-4.0	6178517	N	Gen Prep	9045M	III
05-Jan-2011	SL-068-SA5B-SB-3.0-4.0	6178517	N	METHOD	300.0	III
05-Jan-2011	SL-068-SA5B-SB-3.0-4.0	6178517	N	METHOD	314.0	III
05-Jan-2011	SL-068-SA5B-SB-3.0-4.0	6178517	N	METHOD	7471A	III
05-Jan-2011	SL-067-SA5B-SB-3.5-4.5	6178516	N	3050B	6010B	III
05-Jan-2011	SL-067-SA5B-SB-3.5-4.5	6178516	N	3050B	6020	III
05-Jan-2011	SL-067-SA5B-SB-3.5-4.5	6178516	N	3060A	7199	III
05-Jan-2011	SL-067-SA5B-SB-3.5-4.5	6178516	N	3550B	8082	III
05-Jan-2011	SL-067-SA5B-SB-3.5-4.5	6178516	N	3550B	8270C	III
05-Jan-2011	SL-067-SA5B-SB-3.5-4.5	6178516	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jan-2011	SL-067-SA5B-SB-3.5-4.5	6178516	N	5035	8260B	III
05-Jan-2011	SL-067-SA5B-SB-3.5-4.5	6178516	N	5035	8260B SIM	III
05-Jan-2011	SL-067-SA5B-SB-3.5-4.5	6178516	N	Gen Prep	9045M	III
05-Jan-2011	SL-067-SA5B-SB-3.5-4.5	6178516	N	METHOD	300.0	III
05-Jan-2011	SL-067-SA5B-SB-3.5-4.5	6178516	N	METHOD	314.0	III
05-Jan-2011	SL-067-SA5B-SB-3.5-4.5	6178516	N	METHOD	7471A	III
05-Jan-2011	SL-124-SA5C-SB-4.5-5.5	6178520	N	3050B	6010B	III
05-Jan-2011	SL-124-SA5C-SB-4.5-5.5	6178520	N	3050B	6020	III
05-Jan-2011	SL-124-SA5C-SB-4.5-5.5	6178520	N	3060A	7199	III
05-Jan-2011	SL-124-SA5C-SB-4.5-5.5	6178520	N	3550B	8082	III
05-Jan-2011	SL-124-SA5C-SB-4.5-5.5	6178520	N	3550B	8270C	III
05-Jan-2011	SL-124-SA5C-SB-4.5-5.5	6178520	N	3550B	8270C SIM	III
05-Jan-2011	SL-124-SA5C-SB-4.5-5.5	6178520	N	5035	8260B	III
05-Jan-2011	SL-124-SA5C-SB-4.5-5.5	6178520	N	5035	8260B SIM	III
05-Jan-2011	SL-124-SA5C-SB-4.5-5.5	6178520	N	Gen Prep	9045M	III
05-Jan-2011	SL-124-SA5C-SB-4.5-5.5	6178520	N	METHOD	300.0	III
05-Jan-2011	SL-124-SA5C-SB-4.5-5.5	6178520	N	METHOD	314.0	III
05-Jan-2011	SL-124-SA5C-SB-4.5-5.5	6178520	N	METHOD	7471A	III
05-Jan-2011	SL-124-SA5C-SB-4.5-5.5DUP	P178520D291300A	DUP	Gen Prep	9045M	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5	6178512	N	3050B	6010B	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5	6178512	N	3050B	6020	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5	6178512	N	3060A	7199	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5	6178512	N	3550B	8081A	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5	6178512	N	3550B	8082	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5	6178512	N	3550B	8151A	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5	6178512	N	3550B	8270C	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5	6178512	N	3550B	8270C SIM	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5	6178512	N	Gen Prep	9045M	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5	6178512	N	METHOD	300.0	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5	6178512	N	METHOD	314.0	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5	6178512	N	METHOD	7471A	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5DUP	P178512D220718	DUP	METHOD	7471A	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5DUP	P178512D220918	DUP	3050B	6010B	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5DUP	P178512D221218A	DUP	3050B	6020	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5DUP	P178512D221218B	DUP	3050B	6020	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5DUP	P178512D221218C	DUP	3050B	6020	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5DUP	P178512D221218D	DUP	3050B	6020	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5DUP	P178512D221304	DUP	3050B	6010B	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5MSD	P178512M220720	MSD	METHOD	7471A	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5MSD	P178512M220926	MSD	3050B	6010B	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5MSD	P178512M221224A	MSD	3050B	6020	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5MSD	P178512M221224B	MSD	3050B	6020	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5MSD	P178512M221224C	MSD	3050B	6020	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5MSD	P178512M221224D	MSD	3050B	6020	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5MSD	P178512M221312	MSD	3050B	6010B	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5MSD	P178512M240658A	MSD	3550B	8081A	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5MS	P178512R220719	MS	METHOD	7471A	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5MS	P178512R220922	MS	3050B	6010B	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5MS	P178512R221221A	MS	3050B	6020	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5MS	P178512R221221B	MS	3050B	6020	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5MS	P178512R221221C	MS	3050B	6020	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5MS	P178512R221221D	MS	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5MS	P178512R221308	MS	3050B	6010B	III
05-Jan-2011	SL-027-SA5B-SS-0.0-0.5MS	P178512R240643A	MS	3550B	8081A	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	3050B	6010B	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	3050B	6020	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	3060A	7199	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	3546	1625C	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	3550B	8015B	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	3550B	8015M	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	3550B	8082	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	3550B	8270C	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	3550B	8270C SIM	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	5035	8015M	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	5035	8260B	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	5035	8260B SIM	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	8330	8330A	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	Gen Prep	9045M	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	METHOD	300.0	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	METHOD	314.0	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	METHOD	7471A	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	METHOD	8015B	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	METHOD	8015M	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	METHOD	8315A	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0	6178518	N	METHOD	9012B	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0MSD	P178518M240713A	MSD	8330	8330A	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0MSD	P178518M321035A	MSD	3550B	8015B	III
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0MS	P178518R240631A	MS	8330	8330A	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jan-2011	SL-069-SA5B-SB-3.0-4.0MS	P178518R320950A	MS	3550B	8015B	III
05-Jan-2011	SL-298-SA5B-SS-0.0-0.5	6178522	N	3050B	6010B	III
05-Jan-2011	SL-298-SA5B-SS-0.0-0.5	6178522	N	3050B	6020	III
05-Jan-2011	SL-298-SA5B-SS-0.0-0.5	6178522	N	3060A	7199	III
05-Jan-2011	SL-298-SA5B-SS-0.0-0.5	6178522	N	3550B	8081A	III
05-Jan-2011	SL-298-SA5B-SS-0.0-0.5	6178522	N	3550B	8082	III
05-Jan-2011	SL-298-SA5B-SS-0.0-0.5	6178522	N	3550B	8151A	III
05-Jan-2011	SL-298-SA5B-SS-0.0-0.5	6178522	N	3550B	8270C	III
05-Jan-2011	SL-298-SA5B-SS-0.0-0.5	6178522	N	3550B	8270C SIM	III
05-Jan-2011	SL-298-SA5B-SS-0.0-0.5	6178522	N	Gen Prep	9045M	III
05-Jan-2011	SL-298-SA5B-SS-0.0-0.5	6178522	N	METHOD	300.0	III
05-Jan-2011	SL-298-SA5B-SS-0.0-0.5	6178522	N	METHOD	314.0	III
05-Jan-2011	SL-298-SA5B-SS-0.0-0.5	6178522	N	METHOD	7471A	III
05-Jan-2011	SL-298-SA5B-SS-0.0-0.5DUP	P178522D270552A	DUP	3060A	7199	III
05-Jan-2011	SL-298-SA5B-SS-0.0-0.5DUP	P178522D291300B	DUP	Gen Prep	9045M	III
05-Jan-2011	SL-298-SA5B-SS-0.0-0.5MS	P178522R270521A	MS	3060A	7199	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-069-SA5B-SB-3.0-4.0

Collected: 1/5/2011 3:40:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	4.9		0.86	MDL	1.6	PQL	mg/Kg	J	Q

Sample ID: SL-070-SA5B-SB-2.5-3.5

Collected: 1/5/2011 11:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.97	J	0.86	MDL	1.1	PQL	mg/Kg	J	Z
Nitrate-NO3	3.5		0.86	MDL	1.6	PQL	mg/Kg	J	Q

Method Category: GENCHEM

Method: 314.0

Matrix: SO

Sample ID: SL-070-SA5B-SB-2.5-3.5

Collected: 1/5/2011 11:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	26.3	J	9.6	MDL	32.2	PQL	ug/Kg	J	Z

Method Category: METALS

Method: 6010B

Matrix: AQ

Sample ID: EB17-SA5C-010511

Collected: 1/5/2011 12:30:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	0.0787	J	0.0702	MDL	0.200	PQL	mg/L	U	B

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-027-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:39:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	303		0.0891	MDL	0.571	PQL	mg/Kg	J	E
PHOSPHORUS	277		0.640	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	2590		20.6	MDL	57.1	PQL	mg/Kg	J	Q
TIN	2.44	J	1.14	MDL	11.4	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/22/2011 12:43:33 PM

ADR version 1.3.0.71

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-027-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:39:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.27	J	0.960	MDL	5.71	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5C-SB-4.0-5.0

Collected: 1/5/2011 9:45:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	217		0.0858	MDL	0.550	PQL	mg/Kg	J	E
PHOSPHORUS	227		0.616	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	2520		19.8	MDL	55.0	PQL	mg/Kg	J	Q
SODIUM	80.5	J	41.0	MDL	110	PQL	mg/Kg	J	Z
TIN	2.64	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.45	J	0.924	MDL	5.50	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA5B-SB-4.0-5.0

Collected: 1/5/2011 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	308		0.0839	MDL	0.538	PQL	mg/Kg	J	E
PHOSPHORUS	524		0.602	MDL	10.8	PQL	mg/Kg	J	Q
POTASSIUM	2740		19.4	MDL	53.8	PQL	mg/Kg	J	Q
TIN	2.83	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.26	J	0.903	MDL	5.38	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA5B-SB-9.0-10.0

Collected: 1/5/2011 10:14:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	322		0.0841	MDL	0.539	PQL	mg/Kg	J	E
PHOSPHORUS	526		0.604	MDL	10.8	PQL	mg/Kg	J	Q
POTASSIUM	3200		19.4	MDL	53.9	PQL	mg/Kg	J	Q
TIN	2.82	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.59	J	0.906	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-067-SA5B-SB-3.5-4.5

Collected: 1/5/2011 2:26:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	606		0.0849	MDL	0.544	PQL	mg/Kg	J	E
PHOSPHORUS	499		0.609	MDL	10.9	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

6/22/2011 12:43:33 PM

ADR version 1.3.0.71

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-067-SA5B-SB-3.5-4.5

Collected: 1/5/2011 2:26:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2980		19.6	MDL	54.4	PQL	mg/Kg	J	Q
TIN	2.97	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.17	J	0.914	MDL	5.44	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA5B-SB-3.0-4.0

Collected: 1/5/2011 1:25:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	266		0.0886	MDL	0.568	PQL	mg/Kg	J	E
PHOSPHORUS	696		0.636	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	3290		20.5	MDL	56.8	PQL	mg/Kg	J	Q
TIN	3.38	J	1.14	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	1.43	J	0.955	MDL	5.68	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA5B-SB-3.0-4.0

Collected: 1/5/2011 3:40:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	192		0.0839	MDL	0.538	PQL	mg/Kg	J	E
PHOSPHORUS	423		0.602	MDL	10.8	PQL	mg/Kg	J	Q
POTASSIUM	3640		19.4	MDL	53.8	PQL	mg/Kg	J	Q
TIN	2.60	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.12	J	0.903	MDL	5.38	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA5B-SB-2.5-3.5

Collected: 1/5/2011 11:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	284		0.0828	MDL	0.531	PQL	mg/Kg	J	E
PHOSPHORUS	401		0.594	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2630		19.1	MDL	53.1	PQL	mg/Kg	J	Q
TIN	2.73	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.63	J	0.891	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-124-SA5C-SB-4.5-5.5

Collected: 1/5/2011 2:35:00 PM

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.06	J	0.992	MDL	5.57	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-124-SA5C-SB-4.5-5.5

Collected: 1/5/2011 2:35:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	272		0.0870	MDL	0.557	PQL	mg/Kg	J	E
PHOSPHORUS	108		0.624	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	1930		20.1	MDL	55.7	PQL	mg/Kg	J	Q
TIN	2.58	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.96	J	0.937	MDL	5.57	PQL	mg/Kg	J	Z

Sample ID: SL-137-SA5C-SB-4.5-5.5

Collected: 1/5/2011 11:44:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	386		0.0866	MDL	0.555	PQL	mg/Kg	J	E
PHOSPHORUS	190		0.622	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	2540		20.0	MDL	55.5	PQL	mg/Kg	J	Q
TIN	2.55	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.99	J	0.933	MDL	5.55	PQL	mg/Kg	J	Z

Sample ID: SL-298-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:59:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	346		0.0817	MDL	0.524	PQL	mg/Kg	J	E
PHOSPHORUS	690		0.587	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	3620		18.9	MDL	52.4	PQL	mg/Kg	J	Q
TIN	2.12	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.13	J	0.880	MDL	5.24	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: AQ

Sample ID: EB17-SA5C-010511

Collected: 1/5/2011 12:30:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000053	J	0.000052	MDL	0.0010	PQL	mg/L	U	B
ZINC	0.0047	J	0.0040	MDL	0.0150	PQL	mg/L	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-027-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:39:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.177	J	0.0457	MDL	0.457	PQL	mg/Kg	J	Z

Sample ID: SL-027-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:39:00 PM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.766		0.0571	MDL	0.114	PQL	mg/Kg	J	E

Sample ID: SL-027-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:39:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.285		0.0686	MDL	0.229	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.82		0.0686	MDL	0.457	PQL	mg/Kg	J	Q, Q, E
CHROMIUM	19.1		0.137	MDL	0.457	PQL	mg/Kg	J	A
COBALT	5.97		0.0229	MDL	0.114	PQL	mg/Kg	J	A
COPPER	8.66		0.0754	MDL	0.457	PQL	mg/Kg	J	A
LEAD	6.81		0.0119	MDL	0.229	PQL	mg/Kg	J	Q, E
SILVER	0.0351	J	0.0137	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	49.6		0.0251	MDL	0.114	PQL	mg/Kg	J	E

Sample ID: SL-038-SA5C-SB-4.0-5.0

Collected: 1/5/2011 9:45:00 AM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0927	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5C-SB-4.0-5.0

Collected: 1/5/2011 9:45:00 AM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.409		0.0539	MDL	0.108	PQL	mg/Kg	J	E

Sample ID: SL-038-SA5C-SB-4.0-5.0

Collected: 1/5/2011 9:45:00 AM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0722	J	0.0647	MDL	0.216	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.00		0.0647	MDL	0.431	PQL	mg/Kg	J	Q, Q, E
CADMIUM	0.0763	J	0.0388	MDL	0.108	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-038-SA5C-SB-4.0-5.0

Collected: 1/5/2011 9:45:00 AM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	16.7		0.129	MDL	0.431	PQL	mg/Kg	J	A
COBALT	4.08		0.0216	MDL	0.108	PQL	mg/Kg	J	A
COPPER	4.83		0.0712	MDL	0.431	PQL	mg/Kg	J	A
LEAD	5.03		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, E
SILVER	0.0235	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	33.9		0.0237	MDL	0.108	PQL	mg/Kg	J	E

Sample ID: SL-065-SA5B-SB-4.0-5.0

Collected: 1/5/2011 10:10:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.176	J	0.0426	MDL	0.426	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA5B-SB-4.0-5.0

Collected: 1/5/2011 10:10:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.680		0.0532	MDL	0.106	PQL	mg/Kg	J	E

Sample ID: SL-065-SA5B-SB-4.0-5.0

Collected: 1/5/2011 10:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.244		0.0639	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	9.26		0.0639	MDL	0.426	PQL	mg/Kg	J	Q, Q, E
CHROMIUM	25.0		0.128	MDL	0.426	PQL	mg/Kg	J	A
COBALT	6.08		0.0213	MDL	0.106	PQL	mg/Kg	J	A
COPPER	12.3		0.0703	MDL	0.426	PQL	mg/Kg	J	A
LEAD	7.24		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, E
SILVER	0.0171	J	0.0128	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	51.4		0.0234	MDL	0.106	PQL	mg/Kg	J	E

Sample ID: SL-065-SA5B-SB-9.0-10.0

Collected: 1/5/2011 10:14:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.166	J	0.0436	MDL	0.436	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-065-SA5B-SB-9.0-10.0

Collected: 1/5/2011 10:14:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.713		0.0545	MDL	0.109	PQL	mg/Kg	J	E

Sample ID: SL-065-SA5B-SB-9.0-10.0

Collected: 1/5/2011 10:14:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.595		0.0654	MDL	0.218	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.63		0.0654	MDL	0.436	PQL	mg/Kg	J	Q, Q, E
CHROMIUM	24.7		0.131	MDL	0.436	PQL	mg/Kg	J	A
COBALT	7.81		0.0218	MDL	0.109	PQL	mg/Kg	J	A
COPPER	11.7		0.0719	MDL	0.436	PQL	mg/Kg	J	A
LEAD	7.59		0.0113	MDL	0.218	PQL	mg/Kg	J	Q, E
SILVER	0.0320	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	54.6		0.0240	MDL	0.109	PQL	mg/Kg	J	E

Sample ID: SL-067-SA5B-SB-3.5-4.5

Collected: 1/5/2011 2:26:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.157	J	0.0423	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-067-SA5B-SB-3.5-4.5

Collected: 1/5/2011 2:26:00 PM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.720		0.0528	MDL	0.106	PQL	mg/Kg	J	E

Sample ID: SL-067-SA5B-SB-3.5-4.5

Collected: 1/5/2011 2:26:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.200	J	0.0634	MDL	0.211	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.18		0.0634	MDL	0.423	PQL	mg/Kg	J	Q, Q, E
CADMIUM	0.0977	J	0.0380	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	29.4		0.127	MDL	0.423	PQL	mg/Kg	J	A
COBALT	9.40		0.0211	MDL	0.106	PQL	mg/Kg	J	A
COPPER	7.56		0.0697	MDL	0.423	PQL	mg/Kg	J	A
LEAD	7.03		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E
SILVER	0.0277	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-067-SA5B-SB-3.5-4.5

Collected: 1/5/2011 2:26:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	63.5		0.0232	MDL	0.106	PQL	mg/Kg	J	E

Sample ID: SL-068-SA5B-SB-3.0-4.0

Collected: 1/5/2011 1:25:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.409	J	0.0450	MDL	0.450	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA5B-SB-3.0-4.0

Collected: 1/5/2011 1:25:00 PM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.659		0.0563	MDL	0.113	PQL	mg/Kg	J	E

Sample ID: SL-068-SA5B-SB-3.0-4.0

Collected: 1/5/2011 1:25:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.422		0.0675	MDL	0.225	PQL	mg/Kg	UJ	Q, B
ARSENIC	17.2		0.0675	MDL	0.450	PQL	mg/Kg	J	Q, Q, E
CADMIUM	0.0610	J	0.0405	MDL	0.113	PQL	mg/Kg	J	Z
CHROMIUM	40.7		0.135	MDL	0.450	PQL	mg/Kg	J	A
COBALT	7.67		0.0225	MDL	0.113	PQL	mg/Kg	J	A
COPPER	24.5		0.0743	MDL	0.450	PQL	mg/Kg	J	A
LEAD	13.4		0.0117	MDL	0.225	PQL	mg/Kg	J	Q, E
SILVER	0.0207	J	0.0135	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	81.6		0.0248	MDL	0.113	PQL	mg/Kg	J	E

Sample ID: SL-069-SA5B-SB-3.0-4.0

Collected: 1/5/2011 3:40:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.186	J	0.0414	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA5B-SB-3.0-4.0

Collected: 1/5/2011 3:40:00 PM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.377		0.0517	MDL	0.103	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-069-SA5B-SB-3.0-4.0

Collected: 1/5/2011 3:40:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.128	J	0.0620	MDL	0.207	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.68		0.0620	MDL	0.414	PQL	mg/Kg	J	Q, Q, E
CADMIUM	0.0526	J	0.0372	MDL	0.103	PQL	mg/Kg	J	Z
CHROMIUM	18.2		0.124	MDL	0.414	PQL	mg/Kg	J	A
COBALT	4.96		0.0207	MDL	0.103	PQL	mg/Kg	J	A
COPPER	6.34		0.0682	MDL	0.414	PQL	mg/Kg	J	A
LEAD	4.63		0.0108	MDL	0.207	PQL	mg/Kg	J	Q, E
VANADIUM	44.1		0.0227	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-070-SA5B-SB-2.5-3.5

Collected: 1/5/2011 11:24:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.199	J	0.0429	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA5B-SB-2.5-3.5

Collected: 1/5/2011 11:24:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.582		0.0536	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-070-SA5B-SB-2.5-3.5

Collected: 1/5/2011 11:24:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.254		0.0643	MDL	0.214	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.55		0.0643	MDL	0.429	PQL	mg/Kg	J	Q, Q, E
CHROMIUM	24.8		0.129	MDL	0.429	PQL	mg/Kg	J	A
COBALT	6.83		0.0214	MDL	0.107	PQL	mg/Kg	J	A
COPPER	10.0		0.0707	MDL	0.429	PQL	mg/Kg	J	A
LEAD	6.74		0.0111	MDL	0.214	PQL	mg/Kg	J	Q, E
SILVER	0.0147	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	51.8		0.0236	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-124-SA5C-SB-4.5-5.5

Collected: 1/5/2011 2:35:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0992	J	0.0433	MDL	0.433	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-124-SA5C-SB-4.5-5.5

Collected: 1/5/2011 2:35:00 PM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.243		0.0541	MDL	0.108	PQL	mg/Kg	J	E

Sample ID: SL-124-SA5C-SB-4.5-5.5

Collected: 1/5/2011 2:35:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.185	J	0.0650	MDL	0.217	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.10		0.0650	MDL	0.433	PQL	mg/Kg	J	Q, Q, E
CHROMIUM	32.1		0.130	MDL	0.433	PQL	mg/Kg	J	A
COBALT	7.75		0.0217	MDL	0.108	PQL	mg/Kg	J	A
COPPER	9.29		0.0715	MDL	0.433	PQL	mg/Kg	J	A
LEAD	9.57		0.0113	MDL	0.217	PQL	mg/Kg	J	Q, E
SILVER	0.105	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	71.2		0.0238	MDL	0.108	PQL	mg/Kg	J	E

Sample ID: SL-137-SA5C-SB-4.5-5.5

Collected: 1/5/2011 11:44:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.285	J	0.0453	MDL	0.453	PQL	mg/Kg	J	Z

Sample ID: SL-137-SA5C-SB-4.5-5.5

Collected: 1/5/2011 11:44:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.771		0.0566	MDL	0.113	PQL	mg/Kg	J	E

Sample ID: SL-137-SA5C-SB-4.5-5.5

Collected: 1/5/2011 11:44:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.276		0.0680	MDL	0.227	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.18		0.0680	MDL	0.453	PQL	mg/Kg	J	Q, Q, E
CHROMIUM	38.3		0.136	MDL	0.453	PQL	mg/Kg	J	A
COBALT	8.88		0.0227	MDL	0.113	PQL	mg/Kg	J	A
COPPER	13.1		0.0747	MDL	0.453	PQL	mg/Kg	J	A
LEAD	10.5		0.0118	MDL	0.227	PQL	mg/Kg	J	Q, E
SILVER	0.0660	J	0.0136	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	81.1		0.0249	MDL	0.113	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-298-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:59:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0896	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-298-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:59:00 PM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.526		0.0539	MDL	0.108	PQL	mg/Kg	J	E

Sample ID: SL-298-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:59:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0647	MDL	0.216	PQL	mg/Kg	UJ	Q, B
ARSENIC	3.32		0.0647	MDL	0.431	PQL	mg/Kg	J	Q, Q, E
CHROMIUM	18.3		0.129	MDL	0.431	PQL	mg/Kg	J	A
COBALT	6.87		0.0216	MDL	0.108	PQL	mg/Kg	J	A
COPPER	14.3		0.0712	MDL	0.431	PQL	mg/Kg	J	A
LEAD	5.71		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, E
SILVER	0.0329	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	57.1		0.0237	MDL	0.108	PQL	mg/Kg	J	E

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-027-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:39:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5C-SB-4.0-5.0

Collected: 1/5/2011 9:45:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-065-SA5B-SB-4.0-5.0

Collected: 1/5/2011 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA5B-SB-9.0-10.0

Collected: 1/5/2011 10:14:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-067-SA5B-SB-3.5-4.5

Collected: 1/5/2011 2:26:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA5B-SB-3.0-4.0

Collected: 1/5/2011 1:25:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA5B-SB-2.5-3.5

Collected: 1/5/2011 11:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-124-SA5C-SB-4.5-5.5

Collected: 1/5/2011 2:35:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.38	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-137-SA5C-SB-4.5-5.5

Collected: 1/5/2011 11:44:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.67	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-298-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:59:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-067-SA5B-SB-3.5-4.5

Collected: 1/5/2011 2:26:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0087	J	0.0030	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-124-SA5C-SB-4.5-5.5

Collected: 1/5/2011 2:35:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0127	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 6850

Matrix: SO

Sample ID: SL-137-SA5C-SB-4.5-5.5

Collected: 1/5/2011 11:44:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	4.6	J	2.4	MDL	5.7	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: SL-069-SA5B-SB-3.0-4.0

Collected: 1/5/2011 3:40:00 PM

Analysis Type: REA2S

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.46	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA5B-SB-2.5-3.5

Collected: 1/5/2011 11:24:00

Analysis Type: REA2S

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.64	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-027-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:39:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.31	J	0.077	MDL	0.40	PQL	ug/Kg	J	Z
4,4'-DDT	0.16	J	0.077	MDL	0.40	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-065-SA5B-SB-4.0-5.0

Collected: 1/5/2011 10:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.62	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-065-SA5B-SB-9.0-10.0

Collected: 1/5/2011 10:14:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.1	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	1.4	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-124-SA5C-SB-4.5-5.5

Collected: 1/5/2011 2:35:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.1	J	1.1	MDL	3.7	PQL	ug/Kg	J	Z

Sample ID: SL-137-SA5C-SB-4.5-5.5

Collected: 1/5/2011 11:44:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	3.2	J	1.1	MDL	3.7	PQL	ug/Kg	J	Z

Sample ID: SL-298-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:59:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.59	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	1.6	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-027-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:39:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	4.7	U	4.7	MDL	14	PQL	ug/Kg	R	L

Sample ID: SL-298-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:59:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.32	U	0.32	MDL	2.6	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C

Matrix: AQ

Sample ID: EB17-SA5C-010511

Collected: 1/5/2011 12:30:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8270C SIM

Matrix: AQ

Sample ID: EB17-SA5C-010511

Collected: 1/5/2011 12:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.014	J	0.010	MDL	0.050	PQL	ug/L	J	Z
2-METHYLNAPHTHALENE	0.017	J	0.010	MDL	0.050	PQL	ug/L	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	0.26	J	0.050	MDL	1.0	PQL	ug/L	U	B
Di-n-butylphthalate	0.12	J	0.050	MDL	1.0	PQL	ug/L	U	B
Di-n-octylphthalate	0.10	J	0.050	MDL	1.0	PQL	ug/L	U	B
N-NITROSODIMETHYLAMINE	0.010	U	0.010	MDL	0.050	PQL	ug/L	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-027-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:39:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.44	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.9	J	7.0	MDL	21	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.0	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.5	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-065-SA5B-SB-4.0-5.0

Collected: 1/5/2011 10:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	1.3	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.3	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-065-SA5B-SB-9.0-10.0

Collected: 1/5/2011 10:14:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.80	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-070-SA5B-SB-2.5-3.5

Collected: 1/5/2011 11:24:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.77	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.73	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.1	J	6.4	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.62	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-124-SA5C-SB-4.5-5.5

Collected: 1/5/2011 2:35:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.8	MDL	20	PQL	ug/Kg	J	Z
PHENANTHRENE	0.75	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-298-SA5B-SS-0.0-0.5

Collected: 1/5/2011 3:59:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	7.5	J	3.6	MDL	9.1	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	6.3	J	3.6	MDL	9.1	PQL	ug/Kg	J	Z
CHRYSENE	8.8	J	1.8	MDL	9.1	PQL	ug/Kg	J	Z
PYRENE	5.0	J	3.6	MDL	9.1	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-038-SA5C-SB-4.0-5.0

Collected: 1/5/2011 9:45:00 AM

Analysis Type: RES

Dilution: 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.62	J	0.24	MDL	4.0	PQL	ug/Kg	J	Z

Sample ID: SL-065-SA5B-SB-4.0-5.0

Collected: 1/5/2011 10:10:00

Analysis Type: RES

Dilution: 0.93

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.45	J	0.25	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-068-SA5B-SB-3.0-4.0

Collected: 1/5/2011 1:25:00 PM

Analysis Type: RES

Dilution: 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.29	J	0.23	MDL	3.8	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA5B-SB-3.0-4.0

Collected: 1/5/2011 3:40:00 PM

Analysis Type: RES

Dilution: 0.98

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.32	J	0.25	MDL	4.2	PQL	ug/Kg	J	Z

Sample ID: SL-070-SA5B-SB-2.5-3.5

Collected: 1/5/2011 11:24:00

Analysis Type: RES

Dilution: 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.29	J	0.24	MDL	3.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-124-SA5C-SB-4.5-5.5

Collected: 1/5/2011 2:35:00 PM

Analysis Type: RES

Dilution: 1.04

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.3	J	7.9	MDL	9.4	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.75	J	0.28	MDL	4.7	PQL	ug/Kg	J	Z
TOLUENE	0.09	J	0.09	MDL	4.7	PQL	ug/Kg	U	B

Sample ID: SL-137-SA5C-SB-4.5-5.5

Collected: 1/5/2011 11:44:00

Analysis Type: RES

Dilution: 1.03

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.31	J	0.28	MDL	4.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: PrepDE053_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

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Quality Control Outlier Reports

DE053

Method Blank Outlier Report

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: DE053_v1

eQAPP Name: CDM_SSFL_110509

Method:	6010B
Matrix:	AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01048BB220731	1/13/2011 7:31:00 AM	CALCIUM	0.0891 mg/L	EB17-SA5C-010511

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB17-SA5C-010511(REA3)	CALCIUM	0.0787 mg/L	0.0787U mg/L

Method:	6010B
Matrix:	SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P00608BB220858	1/13/2011 8:58:00 AM	PHOSPHORUS TIN	1.78 mg/Kg 1.51 mg/Kg	SL-027-SA5B-SS-0.0-0.5 SL-038-SA5C-SB-4.0-5.0 SL-065-SA5B-SB-4.0-5.0 SL-065-SA5B-SB-9.0-10.0 SL-067-SA5B-SB-3.5-4.5 SL-068-SA5B-SB-3.0-4.0 SL-069-SA5B-SB-3.0-4.0 SL-070-SA5B-SB-2.5-3.5 SL-124-SA5C-SB-4.5-5.5 SL-137-SA5C-SB-4.5-5.5 SL-298-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-027-SA5B-SS-0.0-0.5(RES)	TIN	2.44 mg/Kg	2.44U mg/Kg
SL-038-SA5C-SB-4.0-5.0(RES)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-065-SA5B-SB-4.0-5.0(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SL-065-SA5B-SB-9.0-10.0(RES)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-067-SA5B-SB-3.5-4.5(RES)	TIN	2.97 mg/Kg	2.97U mg/Kg
SL-068-SA5B-SB-3.0-4.0(RES)	TIN	3.38 mg/Kg	3.38U mg/Kg
SL-069-SA5B-SB-3.0-4.0(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-070-SA5B-SB-2.5-3.5(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-124-SA5C-SB-4.5-5.5(RES)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-137-SA5C-SB-4.5-5.5(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-298-SA5B-SS-0.0-0.5(RES)	TIN	2.12 mg/Kg	2.12U mg/Kg

Method:	6020
Matrix:	AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01050BB221601A	1/13/2011 4:01:00 PM	CADMIUM LEAD	0.00029 mg/L 0.00027 mg/L	EB17-SA5C-010511

Method Blank Outlier Report

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: DE053_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB17-SA5C-010511(REA4)	LEAD	0.000053 mg/L	0.000053U mg/L

Method: 8151A

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P06067AB241046A	1/10/2011 10:46:00 AM	MCPP	100 ug/Kg	SL-027-SA5B-SS-0.0-0.5 SL-298-SA5B-SS-0.0-0.5

Method: 8260B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB38B211250A	1/7/2011 12:50:00 PM	TOLUENE	0.15 ug/Kg	SL-038-SA5C-SB-4.0-5.0 SL-065-SA5B-SB-4.0-5.0 SL-067-SA5B-SB-3.5-4.5 SL-068-SA5B-SB-3.0-4.0 SL-069-SA5B-SB-3.0-4.0 SL-070-SA5B-SB-2.5-3.5 SL-124-SA5C-SB-4.5-5.5 SL-137-SA5C-SB-4.5-5.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-124-SA5C-SB-4.5-5.5(RES)	TOLUENE	0.09 ug/Kg	4.7U ug/Kg

Method: 8270C SIM

Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWB00B260856	1/15/2011 8:56:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate Di-n-octylphthalate	0.12 ug/L 0.088 ug/L 0.059 ug/L	EB17-SA5C-010511

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB17-SA5C-010511(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.26 ug/L	1.0U ug/L
EB17-SA5C-010511(RES)	Di-n-butylphthalate	0.12 ug/L	1.0U ug/L
EB17-SA5C-010511(RES)	Di-n-octylphthalate	0.10 ug/L	1.0U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: DE053_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-027-SA5B-SS-0.0-0.5MS SL-027-SA5B-SS-0.0-0.5MSD (SL-027-SA5B-SS-0.0-0.5 SL-038-SA5C-SB-4.0-5.0 SL-065-SA5B-SB-4.0-5.0 SL-065-SA5B-SB-9.0-10.0 SL-067-SA5B-SB-3.5-4.5 SL-068-SA5B-SB-3.0-4.0 SL-069-SA5B-SB-3.0-4.0 SL-070-SA5B-SB-2.5-3.5 SL-124-SA5C-SB-4.5-5.5 SL-137-SA5C-SB-4.5-5.5 SL-298-SA5B-SS-0.0-0.5)	ARSENIC	24	169	75.00-125.00	42 (20.00)	ARSENIC	J (all detects) R (all non-detects)
SL-027-SA5B-SS-0.0-0.5MS SL-027-SA5B-SS-0.0-0.5MSD (SL-027-SA5B-SS-0.0-0.5 SL-038-SA5C-SB-4.0-5.0 SL-065-SA5B-SB-4.0-5.0 SL-065-SA5B-SB-9.0-10.0 SL-067-SA5B-SB-3.5-4.5 SL-068-SA5B-SB-3.0-4.0 SL-069-SA5B-SB-3.0-4.0 SL-070-SA5B-SB-2.5-3.5 SL-124-SA5C-SB-4.5-5.5 SL-137-SA5C-SB-4.5-5.5 SL-298-SA5B-SS-0.0-0.5)	ANTIMONY LEAD VANADIUM	41 68 -	44 - 52	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ANTIMONY LEAD VANADIUM	J(all detects) UJ(all non-detects) V No Qual, >4x
SL-027-SA5B-SS-0.0-0.5MSD (SL-027-SA5B-SS-0.0-0.5 SL-038-SA5C-SB-4.0-5.0 SL-065-SA5B-SB-4.0-5.0 SL-065-SA5B-SB-9.0-10.0 SL-067-SA5B-SB-3.5-4.5 SL-068-SA5B-SB-3.0-4.0 SL-069-SA5B-SB-3.0-4.0 SL-070-SA5B-SB-2.5-3.5 SL-124-SA5C-SB-4.5-5.5 SL-137-SA5C-SB-4.5-5.5 SL-298-SA5B-SS-0.0-0.5)	BARIUM	-	54	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-027-SA5B-SS-0.0-0.5MS SL-027-SA5B-SS-0.0-0.5MSD (SL-027-SA5B-SS-0.0-0.5 SL-038-SA5C-SB-4.0-5.0 SL-065-SA5B-SB-4.0-5.0 SL-065-SA5B-SB-9.0-10.0 SL-067-SA5B-SB-3.5-4.5 SL-068-SA5B-SB-3.0-4.0 SL-069-SA5B-SB-3.0-4.0 SL-070-SA5B-SB-2.5-3.5 SL-124-SA5C-SB-4.5-5.5 SL-137-SA5C-SB-4.5-5.5 SL-298-SA5B-SS-0.0-0.5)	ALUMINUM CALCIUM IRON MAGNESIUM PHOSPHORUS POTASSIUM TITANIUM	225 221 473 284 160 150 226	1269 181 989 199 - 150 225	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - -	ALUMINUM CALCIUM IRON MAGNESIUM PHOSPHORUS POTASSIUM TITANIUM	J(all detects) Al, Ca, Fe, Mg, Ti No Qual, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: DE053_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-027-SA5B-SS-0.0-0.5MS SL-027-SA5B-SS-0.0-0.5MSD (SL-027-SA5B-SS-0.0-0.5 SL-038-SA5C-SB-4.0-5.0 SL-065-SA5B-SB-4.0-5.0 SL-065-SA5B-SB-9.0-10.0 SL-067-SA5B-SB-3.5-4.5 SL-068-SA5B-SB-3.0-4.0 SL-069-SA5B-SB-3.0-4.0 SL-070-SA5B-SB-2.5-3.5 SL-124-SA5C-SB-4.5-5.5 SL-137-SA5C-SB-4.5-5.5 SL-298-SA5B-SS-0.0-0.5)	MANGANESE	187	889	75.00-125.00	65 (20.00)	MANGANESE	J(all detects) UJ(all non-detects) No Qual %R, >4x

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-038-SA5C-SB-4.0-5.0MS (SL-038-SA5C-SB-4.0-5.0 SL-065-SA5B-SB-4.0-5.0 SL-065-SA5B-SB-9.0-10.0 SL-067-SA5B-SB-3.5-4.5 SL-068-SA5B-SB-3.0-4.0 SL-069-SA5B-SB-3.0-4.0 SL-070-SA5B-SB-2.5-3.5 SL-124-SA5C-SB-4.5-5.5 SL-137-SA5C-SB-4.5-5.5 SL-298-SA5B-SS-0.0-0.5)	Nitrate-NO3	76	-	80.00-120.00	-	Nitrate-NO3	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: DE053_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-027-SA5B-SS-0.0-0.5DUP (SL-027-SA5B-SS-0.0-0.5 SL-038-SA5C-SB-4.0-5.0 SL-065-SA5B-SB-4.0-5.0 SL-065-SA5B-SB-9.0-10.0 SL-067-SA5B-SB-3.5-4.5 SL-068-SA5B-SB-3.0-4.0 SL-069-SA5B-SB-3.0-4.0 SL-070-SA5B-SB-2.5-3.5 SL-124-SA5C-SB-4.5-5.5 SL-137-SA5C-SB-4.5-5.5 SL-298-SA5B-SS-0.0-0.5)	Zirconium	23	20.00	No Qual OK by difference

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-027-SA5B-SS-0.0-0.5DUP (SL-027-SA5B-SS-0.0-0.5 SL-038-SA5C-SB-4.0-5.0 SL-065-SA5B-SB-4.0-5.0 SL-065-SA5B-SB-9.0-10.0 SL-067-SA5B-SB-3.5-4.5 SL-068-SA5B-SB-3.0-4.0 SL-069-SA5B-SB-3.0-4.0 SL-070-SA5B-SB-2.5-3.5 SL-124-SA5C-SB-4.5-5.5 SL-137-SA5C-SB-4.5-5.5 SL-298-SA5B-SS-0.0-0.5)	ANTIMONY BERYLLIUM CADMIUM LEAD MOLYBDENUM SELENIUM VANADIUM	85 27 45 30 0.2477 30 22	20.00 20.00 20.00 20.00 0.228 mg/Kg 20.00 20.00	J(all detects) UJ(all non-detects) Sb, Be, Cd, Se No Qual OK by difference

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-298-SA5B-SS-0.0-0.5DUP (SL-027-SA5B-SS-0.0-0.5 SL-038-SA5C-SB-4.0-5.0 SL-065-SA5B-SB-4.0-5.0 SL-065-SA5B-SB-9.0-10.0 SL-067-SA5B-SB-3.5-4.5 SL-068-SA5B-SB-3.0-4.0 SL-069-SA5B-SB-3.0-4.0 SL-070-SA5B-SB-2.5-3.5 SL-124-SA5C-SB-4.5-5.5 SL-137-SA5C-SB-4.5-5.5 SL-298-SA5B-SS-0.0-0.5)	HEXAVALENT CHROMIUM	36	20.00	No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: DE053_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-038-SA5C-SB-4.0-5.0DUP (SL-038-SA5C-SB-4.0-5.0 SL -065-SA5B-SB-4.0-5.0 SL -065-SA5B-SB-9.0-10.0 SL -067-SA5B-SB-3.5-4.5 SL -068-SA5B-SB-3.0-4.0 SL -069-SA5B-SB-3.0-4.0 SL -070-SA5B-SB-2.5-3.5 SL -124-SA5C-SB-4.5-5.5 SL -137-SA5C-SB-4.5-5.5 SL -298-SA5B-SS-0.0-0.5)	Nitrate-NO3	39	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: DE053_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8WBLCSQ260928 P8WBLCSY261000 (EB17-SA5C-010511)	BENZO(A)PYRENE BENZO(K)FLUORANTHENE	118 129	117 130	64.00-115.00 72.00-122.00	- -	BENZO(A)PYRENE BENZO(K)FLUORANTHENE	J (all detects)
P8WBLCSQ260928 P8WBLCSY261000 (EB17-SA5C-010511)	N-NITROSODIMETHYLAMINE	57	55	70.00-130.00	-	N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Method: 8270C

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WCLCSY260904 (EB17-SA5C-010511)	BENZOIC ACID	-	-	10.00-89.00	80 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10067AQ241114A (SL-027-SA5B-SS-0.0-0.5 SL-298-SA5B-SS-0.0-0.5)	DINOSEB	7	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 8260B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1B38Q211421A (SL-038-SA5C-SB-4.0-5.0 SL-065-SA5B-SB-4.0-5.0 SL-067-SA5B-SB-3.5-4.5 SL-068-SA5B-SB-3.0-4.0 SL-069-SA5B-SB-3.0-4.0 SL-070-SA5B-SB-2.5-3.5 SL-124-SA5C-SB-4.5-5.5 SL-137-SA5C-SB-4.5-5.5)	Chlorotrifluoroethylene	138	-	22.00-131.00	-	Chlorotrifluoroethylene	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: DE053_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB17-SA5C-010511	CALCIUM	J	0.0787	0.200	PQL	mg/L	J (all detects)

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB17-SA5C-010511	LEAD	J	0.000053	0.0010	PQL	mg/L	J (all detects)
	ZINC	J	0.0047	0.0150	PQL	mg/L	

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB17-SA5C-010511	1-METHYLNAPHTHALENE	J	0.014	0.050	PQL	ug/L	J (all detects)
	2-METHYLNAPHTHALENE	J	0.017	0.050	PQL	ug/L	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.26	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.12	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.10	1.0	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-070-SA5B-SB-2.5-3.5	FLUORIDE	J	0.97	1.1	PQL	mg/Kg	J (all detects)

Method: 314.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-070-SA5B-SB-2.5-3.5	PERCHLORATE	J	26.3	32.2	PQL	ug/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA5B-SS-0.0-0.5	TIN	J	2.44	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.27	5.71	PQL	mg/Kg	
SL-038-SA5C-SB-4.0-5.0	SODIUM	J	80.5	110	PQL	mg/Kg	J (all detects)
	TIN	J	2.64	11.0	PQL	mg/Kg	
	Zirconium	J	1.45	5.50	PQL	mg/Kg	
SL-065-SA5B-SB-4.0-5.0	TIN	J	2.83	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.26	5.38	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: DE053_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-065-SA5B-SB-9.0-10.0	TIN	J	2.82	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.59	5.39	PQL	mg/Kg	
SL-067-SA5B-SB-3.5-4.5	TIN	J	2.97	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.17	5.44	PQL	mg/Kg	
SL-068-SA5B-SB-3.0-4.0	TIN	J	3.38	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.43	5.68	PQL	mg/Kg	
SL-069-SA5B-SB-3.0-4.0	TIN	J	2.60	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.12	5.38	PQL	mg/Kg	
SL-070-SA5B-SB-2.5-3.5	TIN	J	2.73	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.63	5.31	PQL	mg/Kg	
SL-124-SA5C-SB-4.5-5.5	BORON	J	1.06	5.57	PQL	mg/Kg	J (all detects)
	TIN	J	2.58	11.1	PQL	mg/Kg	
	Zirconium	J	2.96	5.57	PQL	mg/Kg	
SL-137-SA5C-SB-4.5-5.5	TIN	J	2.55	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.99	5.55	PQL	mg/Kg	
SL-298-SA5B-SS-0.0-0.5	TIN	J	2.12	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.13	5.24	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA5B-SS-0.0-0.5	SELENIUM	J	0.177	0.457	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0351	0.114	PQL	mg/Kg	
SL-038-SA5C-SB-4.0-5.0	ANTIMONY	J	0.0722	0.216	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0763	0.108	PQL	mg/Kg	
	SELENIUM	J	0.0927	0.431	PQL	mg/Kg	
	SILVER	J	0.0235	0.108	PQL	mg/Kg	
SL-065-SA5B-SB-4.0-5.0	SELENIUM	J	0.176	0.426	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0171	0.106	PQL	mg/Kg	
SL-065-SA5B-SB-9.0-10.0	SELENIUM	J	0.166	0.436	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0320	0.109	PQL	mg/Kg	
SL-067-SA5B-SB-3.5-4.5	ANTIMONY	J	0.200	0.211	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0977	0.106	PQL	mg/Kg	
	SELENIUM	J	0.157	0.423	PQL	mg/Kg	
	SILVER	J	0.0277	0.106	PQL	mg/Kg	
SL-068-SA5B-SB-3.0-4.0	CADMIUM	J	0.0610	0.113	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.409	0.450	PQL	mg/Kg	
	SILVER	J	0.0207	0.113	PQL	mg/Kg	
SL-069-SA5B-SB-3.0-4.0	ANTIMONY	J	0.128	0.207	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0526	0.103	PQL	mg/Kg	
	SELENIUM	J	0.186	0.414	PQL	mg/Kg	
SL-070-SA5B-SB-2.5-3.5	SELENIUM	J	0.199	0.429	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0147	0.107	PQL	mg/Kg	
SL-124-SA5C-SB-4.5-5.5	ANTIMONY	J	0.185	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0992	0.433	PQL	mg/Kg	
	SILVER	J	0.105	0.108	PQL	mg/Kg	
SL-137-SA5C-SB-4.5-5.5	SELENIUM	J	0.285	0.453	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0660	0.113	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: DE053_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-298-SA5B-SS-0.0-0.5	ANTIMONY	J	0.102	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0896	0.431	PQL	mg/Kg	
	SILVER	J	0.0329	0.108	PQL	mg/Kg	

Method: 6850

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-137-SA5C-SB-4.5-5.5	PERCHLORATE	J	4.6	5.7	PQL	ug/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.49	1.2	PQL	mg/Kg	J (all detects)
SL-038-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.37	1.1	PQL	mg/Kg	J (all detects)
SL-065-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-065-SA5B-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-067-SA5B-SB-3.5-4.5	HEXAVALENT CHROMIUM	J	0.29	1.1	PQL	mg/Kg	J (all detects)
SL-068-SA5B-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.35	1.1	PQL	mg/Kg	J (all detects)
SL-070-SA5B-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-124-SA5C-SB-4.5-5.5	HEXAVALENT CHROMIUM	J	0.38	1.1	PQL	mg/Kg	J (all detects)
SL-137-SA5C-SB-4.5-5.5	HEXAVALENT CHROMIUM	J	0.67	1.1	PQL	mg/Kg	J (all detects)
SL-298-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.40	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-067-SA5B-SB-3.5-4.5	MERCURY	J	0.0087	0.106	PQL	mg/Kg	J (all detects)
SL-124-SA5C-SB-4.5-5.5	MERCURY	J	0.0127	0.111	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-069-SA5B-SB-3.0-4.0	EFH (C21-C30)	J	0.46	1.3	PQL	mg/Kg	J (all detects)
SL-070-SA5B-SB-2.5-3.5	EFH (C15-C20)	J	0.64	1.3	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: DE053_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA5B-SS-0.0-0.5	4,4'-DDE	J	0.31	0.40	PQL	ug/Kg	J (all detects)
	4,4'-DDT	J	0.16	0.40	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-065-SA5B-SB-4.0-5.0	AROCOR 1254	J	1.2	1.9	PQL	ug/Kg	J (all detects)
	AROCOR 1260	J	0.62	1.9	PQL	ug/Kg	
SL-065-SA5B-SB-9.0-10.0	AROCOR 1260	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.4	3.6	PQL	ug/Kg	
SL-124-SA5C-SB-4.5-5.5	Aroclor 5460	J	2.1	3.7	PQL	ug/Kg	J (all detects)
SL-137-SA5C-SB-4.5-5.5	Aroclor 5460	J	3.2	3.7	PQL	ug/Kg	J (all detects)
SL-298-SA5B-SS-0.0-0.5	AROCOR 1254	J	0.59	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.6	3.6	PQL	ug/Kg	

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-038-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.62	4.0	PQL	ug/Kg	J (all detects)
SL-065-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.45	4.1	PQL	ug/Kg	J (all detects)
SL-068-SA5B-SB-3.0-4.0	METHYLENE CHLORIDE	J	0.29	3.8	PQL	ug/Kg	J (all detects)
SL-069-SA5B-SB-3.0-4.0	METHYLENE CHLORIDE	J	0.32	4.2	PQL	ug/Kg	J (all detects)
SL-070-SA5B-SB-2.5-3.5	METHYLENE CHLORIDE	J	0.29	3.9	PQL	ug/Kg	J (all detects)
SL-124-SA5C-SB-4.5-5.5	ACETONE	J	8.3	9.4	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.75	4.7	PQL	ug/Kg	
	TOLUENE	J	0.09	4.7	PQL	ug/Kg	
SL-137-SA5C-SB-4.5-5.5	METHYLENE CHLORIDE	J	0.31	4.7	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.44	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.9	21	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.0	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.5	1.9	PQL	ug/Kg	
SL-065-SA5B-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.8	PQL	ug/Kg	
SL-065-SA5B-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	
	CHRYSENE	J	0.80	1.8	PQL	ug/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE053

Laboratory: LL

EDD Filename: DE053_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-070-SA5B-SB-2.5-3.5	BENZO(B)FLUORANTHENE	J	0.77	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.73	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.1	19	PQL	ug/Kg	
	CHRYSENE	J	0.62	1.8	PQL	ug/Kg	
SL-124-SA5C-SB-4.5-5.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	20	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	0.75	1.9	PQL	ug/Kg	
SL-298-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	7.5	9.1	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	6.3	9.1	PQL	ug/Kg	
	CHRYSENE	J	8.8	9.1	PQL	ug/Kg	
	PYRENE	J	5.0	9.1	PQL	ug/Kg	

LDC #: 25337N4 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: DE053 ADR
 Laboratory: Lancaster Laboratories

Date: 5-5-11
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/60200/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	PRP Data
VI.	Matrix Spike Analysis	N	MSD (Al, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn) 74X
VII.	Duplicate Sample Analysis	N	Dup (Sh, Cd, Se, Cr, Mo) 5X RL
VIII.	Laboratory Control Samples (LCS)	N	LCS Re → Difference out: 5/105 0.2177 (50.228)
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr-13%, Co-16%, Cu-12%
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	SW	EB=1

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: Soil/water

1	EB17-SA5C-010511	W	11	SL-137-SA5C-SB-4.5-5.5	21		31	
2	SL-027-SA5B-SS-0.0-0.5		12	SL-298-SA5B-SS-0.0-0.5	22		32	
3	SL-038-SA5C-SB-4.0-5.0		13	(AZ) MS	23		33	
4	SL-065-SA5B-SB-4.0-5.0		14	MSD	24		34	
5	SL-065-SA5B-SB-9.0-10.0		15	DUP	25		35	
6	SL-067-SA5B-SB-3.5-4.5		16		26		36	
7	SL-068-SA5B-SB-3.0-4.0		17		27		37	
8	SL-069-SA5B-SB-3.0-4.0		18		28		38	
9	SL-070-SA5B-SB-2.5-3.5		19		29		39	
10	SL-124-SA5B-SB-4.5-5.5		20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace Metals (EPA SW 846 Method 6020/7000) Soil preparation factor applied: 100x x (ICPMS: 2x dil)
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All Soil

		Sample Identification									
Analyte	Maximum ICB/CCB ^a (ug/L)	Blank Action Limit	2	3	4	6	8	9	10	11	12
Sb	0.32	0.32	0.28	0.072	0.24	0.20	0.13	0.25	0.18	0.28	0.10

SAMPLE DELIVERY GROUP

DE054

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0	6179369	N	3050B	6010B	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0	6179369	N	3050B	6020	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0	6179369	N	3060A	7199	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0	6179369	N	3550B	8082	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0	6179369	N	3550B	8270C	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0	6179369	N	3550B	8270C SIM	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0	6179369	N	5035	8260B	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0	6179369	N	5035	8260B SIM	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0	6179369	N	Gen Prep	9045M	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0	6179369	N	METHOD	300.0	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0	6179369	N	METHOD	314.0	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0	6179369	N	METHOD	7471A	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MS	6179370	MS	3050B	6010B	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MS	6179370	MS	3050B	6020	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MS	6179370	MS	3060A	7199	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MS	6179370	MS	3550B	8082	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MS	6179370	MS	3550B	8270C	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MS	6179370	MS	3550B	8270C SIM	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MS	6179370	MS	5035	8260B	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MS	6179370	MS	5035	8260B SIM	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MS	6179370	MS	METHOD	300.0	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MS	6179370	MS	METHOD	314.0	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MS	6179370	MS	METHOD	7471A	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MSD	6179371	MSD	3050B	6010B	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MSD	6179371	MSD	3050B	6020	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MSD	6179371	MSD	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MSD	6179371	MSD	3550B	8270C	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MSD	6179371	MSD	3550B	8270C SIM	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MSD	6179371	MSD	5035	8260B	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MSD	6179371	MSD	5035	8260B SIM	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MSD	6179371	MSD	METHOD	7471A	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0DUP	6179372	DUP	3050B	6010B	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0DUP	6179372	DUP	3050B	6020	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0DUP	6179372	DUP	3060A	7199	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0DUP	6179372	DUP	Gen Prep	9045M	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0DUP	6179372	DUP	METHOD	300.0	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0DUP	6179372	DUP	METHOD	314.0	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0DUP	6179372	DUP	METHOD	7471A	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0DUP	P179369D270401A	DUP	METHOD	300.0	III
06-Jan-2011	SL-066-SA5B-SB-3.0-4.0MS	P179369R270415A	MS	METHOD	300.0	III
06-Jan-2011	DUP16-SA5B-QC-010611	6179373	FD	3050B	6010B	III
06-Jan-2011	DUP16-SA5B-QC-010611	6179373	FD	3050B	6020	III
06-Jan-2011	DUP16-SA5B-QC-010611	6179373	FD	3060A	7199	III
06-Jan-2011	DUP16-SA5B-QC-010611	6179373	FD	3550B	8082	III
06-Jan-2011	DUP16-SA5B-QC-010611	6179373	FD	3550B	8270C	III
06-Jan-2011	DUP16-SA5B-QC-010611	6179373	FD	3550B	8270C SIM	III
06-Jan-2011	DUP16-SA5B-QC-010611	6179373	FD	5035	8260B	III
06-Jan-2011	DUP16-SA5B-QC-010611	6179373	FD	5035	8260B SIM	III
06-Jan-2011	DUP16-SA5B-QC-010611	6179373	FD	Gen Prep	9045M	III
06-Jan-2011	DUP16-SA5B-QC-010611	6179373	FD	METHOD	300.0	III
06-Jan-2011	DUP16-SA5B-QC-010611	6179373	FD	METHOD	314.0	III
06-Jan-2011	DUP16-SA5B-QC-010611	6179373	FD	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jan-2011	SL-137-SA5B-SS-0.0-0.5	6179367	N	3050B	6010B	III
06-Jan-2011	SL-137-SA5B-SS-0.0-0.5	6179367	N	3050B	6020	III
06-Jan-2011	SL-137-SA5B-SS-0.0-0.5	6179367	N	3060A	7199	III
06-Jan-2011	SL-137-SA5B-SS-0.0-0.5	6179367	N	3550B	8081A	III
06-Jan-2011	SL-137-SA5B-SS-0.0-0.5	6179367	N	3550B	8082	III
06-Jan-2011	SL-137-SA5B-SS-0.0-0.5	6179367	N	3550B	8151A	III
06-Jan-2011	SL-137-SA5B-SS-0.0-0.5	6179367	N	3550B	8270C	III
06-Jan-2011	SL-137-SA5B-SS-0.0-0.5	6179367	N	3550B	8270C SIM	III
06-Jan-2011	SL-137-SA5B-SS-0.0-0.5	6179367	N	Gen Prep	9045M	III
06-Jan-2011	SL-137-SA5B-SS-0.0-0.5	6179367	N	METHOD	300.0	III
06-Jan-2011	SL-137-SA5B-SS-0.0-0.5	6179367	N	METHOD	314.0	III
06-Jan-2011	SL-137-SA5B-SS-0.0-0.5	6179367	N	METHOD	7471A	III
06-Jan-2011	SL-137-SA5B-SS-0.0-0.5MSD	P179367M241907A	MSD	3550B	8151A	III
06-Jan-2011	SL-137-SA5B-SS-0.0-0.5MS	P179367R241839A	MS	3550B	8151A	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	3050B	6010B	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	3050B	6020	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	3060A	7199	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	3546	1625C	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	3550B	8015B	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	3550B	8015M	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	3550B	8082	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	3550B	8270C	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	3550B	8270C SIM	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	5035	8015M	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	5035	8260B	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	5035	8260B SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	8330	8330A	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	Gen Prep	9045M	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	METHOD	300.0	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	METHOD	314.0	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	METHOD	7471A	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	METHOD	8015B	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	METHOD	8015M	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	METHOD	8315A	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0	6179368	N	METHOD	9012B	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0MSD	P179368M260834	MSD	3546	1625C	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0MSD	P179368M322016A	MSD	METHOD	8015B	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0MS	P179368R260800	MS	3546	1625C	III
06-Jan-2011	SL-063-SA5B-SB-3.0-4.0MS	P179368R322001A	MS	METHOD	8015B	III
06-Jan-2011	TB-010611	6179377	TB	5030B	8015M	III
06-Jan-2011	TB-010611	6179377	TB	5030B	8260B	III
06-Jan-2011	TB-010611	6179377	TB	5030B	8260B SIM	III
06-Jan-2011	EB18-SA5B-010611	6179366	EB	3005A	6010B	III
06-Jan-2011	EB18-SA5B-010611	6179366	EB	3020A	6020	III
06-Jan-2011	EB18-SA5B-010611	6179366	EB	3510C	8082	III
06-Jan-2011	EB18-SA5B-010611	6179366	EB	3510C	8270C	III
06-Jan-2011	EB18-SA5B-010611	6179366	EB	3510C	8270C SIM	III
06-Jan-2011	EB18-SA5B-010611	6179366	EB	Gen Prep	300.0	III
06-Jan-2011	EB18-SA5B-010611	6179366	EB	Gen Prep	314.0	III
06-Jan-2011	EB18-SA5B-010611	6179366	EB	Gen Prep	7199	III
06-Jan-2011	EB18-SA5B-010611	6179366	EB	METHOD	7470A	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	3050B	6010B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	3050B	6020	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	3060A	7199	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	3546	1625C	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	3550B	8015B	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	3550B	8015M	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	3550B	8082	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	3550B	8270C	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	3550B	8270C SIM	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	5035	8015M	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	5035	8260B	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	5035	8260B SIM	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	8330	8330A	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	Gen Prep	9045M	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	METHOD	300.0	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	METHOD	314.0	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	METHOD	6850	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	METHOD	7471A	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	METHOD	8015B	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	METHOD	8015M	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	METHOD	8315A	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0	6179375	N	METHOD	9012B	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0MSD	P179375M321034A	MSD	3550B	8015M	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0MSD	P179375M322009A	MSD	METHOD	8015B	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0MS	P179375R321009A	MS	3550B	8015M	III
06-Jan-2011	SL-051-SA5B-SB-3.0-4.0MS	P179375R321954A	MS	METHOD	8015B	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	3050B	6020	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	3060A	7199	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	3546	1625C	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	3550B	8015B	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	3550B	8015M	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	3550B	8082	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	3550B	8270C	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	3550B	8270C SIM	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	5035	8015M	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	5035	8260B	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	5035	8260B SIM	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	8330	8330A	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	Gen Prep	9045M	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	METHOD	300.0	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	METHOD	314.0	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	METHOD	7471A	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	METHOD	8015B	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	METHOD	8015M	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	METHOD	8315A	III
06-Jan-2011	SL-050-SA5B-SB-3.0-4.0	6179376	N	METHOD	9012B	III
06-Jan-2011	SL-058-SA5B-SB-4.0-5.0	6179374	N	3050B	6010B	III
06-Jan-2011	SL-058-SA5B-SB-4.0-5.0	6179374	N	3050B	6020	III
06-Jan-2011	SL-058-SA5B-SB-4.0-5.0	6179374	N	3060A	7199	III
06-Jan-2011	SL-058-SA5B-SB-4.0-5.0	6179374	N	3550B	8082	III
06-Jan-2011	SL-058-SA5B-SB-4.0-5.0	6179374	N	3550B	8270C	III
06-Jan-2011	SL-058-SA5B-SB-4.0-5.0	6179374	N	3550B	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jan-2011	SL-058-SA5B-SB-4.0-5.0	6179374	N	5035	8260B	III
06-Jan-2011	SL-058-SA5B-SB-4.0-5.0	6179374	N	5035	8260B SIM	III
06-Jan-2011	SL-058-SA5B-SB-4.0-5.0	6179374	N	Gen Prep	9045M	III
06-Jan-2011	SL-058-SA5B-SB-4.0-5.0	6179374	N	METHOD	300.0	III
06-Jan-2011	SL-058-SA5B-SB-4.0-5.0	6179374	N	METHOD	314.0	III
06-Jan-2011	SL-058-SA5B-SB-4.0-5.0	6179374	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM
Method:	300.0
Matrix:	SO

Sample ID: DUP16-SA5B-QC-010611 Collected: 1/6/2011 9:40:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-050-SA5B-SB-3.0-4.0 Collected: 1/6/2011 3:44:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.88	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.0	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-051-SA5B-SB-3.0-4.0 Collected: 1/6/2011 2:45:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.93	MDL	1.2	PQL	mg/Kg	J	Q
Nitrate-NO3	1.0	J	0.93	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-058-SA5B-SB-4.0-5.0 Collected: 1/6/2011 3:47:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-063-SA5B-SB-3.0-4.0 Collected: 1/6/2011 12:07:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-066-SA5B-SB-3.0-4.0 Collected: 1/6/2011 9:38:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-137-SA5B-SS-0.0-0.5 Collected: 1/6/2011 10:58:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.3		0.88	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

7/14/2011 8:42:38 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: DUP16-SA5B-QC-010611

Collected: 1/6/2011 9:40:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15600		5.27	MDL	21.0	PQL	mg/Kg	J	E
BORON	2.09	J	0.933	MDL	5.24	PQL	mg/Kg	J	Z
MANGANESE	182		0.0818	MDL	0.524	PQL	mg/Kg	J	FD
SODIUM	106		39.1	MDL	105	PQL	mg/Kg	J	FD
STRONTIUM	17.9		0.0650	MDL	0.524	PQL	mg/Kg	J	E
TIN	2.73	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.03	J	0.881	MDL	5.24	PQL	mg/Kg	J	Z, FD

Sample ID: SL-050-SA5B-SB-3.0-4.0

Collected: 1/6/2011 3:44:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13500		5.45	MDL	21.7	PQL	mg/Kg	J	E
BORON	1.67	J	0.964	MDL	5.42	PQL	mg/Kg	J	Z
STRONTIUM	32.4		0.0672	MDL	0.542	PQL	mg/Kg	J	E
TIN	2.33	J	1.08	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-051-SA5B-SB-3.0-4.0

Collected: 1/6/2011 2:45:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	23800		5.76	MDL	22.9	PQL	mg/Kg	J	E
BORON	1.52	J	1.02	MDL	5.73	PQL	mg/Kg	J	Z
STRONTIUM	32.1		0.0710	MDL	0.573	PQL	mg/Kg	J	E
TIN	2.69	J	1.15	MDL	11.5	PQL	mg/Kg	U	B

Sample ID: SL-058-SA5B-SB-4.0-5.0

Collected: 1/6/2011 3:47:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	11500		5.46	MDL	21.7	PQL	mg/Kg	J	E
BORON	3.05	J	0.966	MDL	5.43	PQL	mg/Kg	J	Z
STRONTIUM	15.8		0.0673	MDL	0.543	PQL	mg/Kg	J	E
TIN	2.51	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.12	J	0.912	MDL	5.43	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-063-SA5B-SB-3.0-4.0

Collected: 1/6/2011 12:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	21200		5.34	MDL	21.2	PQL	mg/Kg	J	E
BORON	1.27	J	0.945	MDL	5.31	PQL	mg/Kg	J	Z
STRONTIUM	19.5		0.0659	MDL	0.531	PQL	mg/Kg	J	E
TIN	2.82	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.26	J	0.892	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-066-SA5B-SB-3.0-4.0

Collected: 1/6/2011 9:38:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15700		5.48	MDL	21.8	PQL	mg/Kg	J	E
BORON	2.91	J	0.970	MDL	5.45	PQL	mg/Kg	J	Z
MANGANESE	319		0.0851	MDL	0.545	PQL	mg/Kg	J	FD
SODIUM	323		40.7	MDL	109	PQL	mg/Kg	J	FD
STRONTIUM	17.3		0.0676	MDL	0.545	PQL	mg/Kg	J	E
TIN	2.65	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.15	J	0.916	MDL	5.45	PQL	mg/Kg	J	Z, FD

Sample ID: SL-137-SA5B-SS-0.0-0.5

Collected: 1/6/2011 10:58:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13600		5.33	MDL	21.2	PQL	mg/Kg	J	E
BORON	4.05	J	0.944	MDL	5.30	PQL	mg/Kg	J	Z
STRONTIUM	21.8		0.0657	MDL	0.530	PQL	mg/Kg	J	E
TIN	2.25	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.62	J	0.891	MDL	5.30	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: AQ

Sample ID: EB18-SA5B-010611

Collected: 1/6/2011 1:00:00 PM

Analysis Type: REA5

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000059	J	0.00005 2	MDL	0.0010	PQL	mg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP16-SA5B-QC-010611

Collected: 1/6/2011 9:40:00 AM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.152	J	0.0642	MDL	0.214	PQL	mg/Kg	J	Z, Q

Sample ID: DUP16-SA5B-QC-010611

Collected: 1/6/2011 9:40:00 AM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0868	J	0.0428	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: DUP16-SA5B-QC-010611

Collected: 1/6/2011 9:40:00 AM

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	110		0.115	MDL	0.428	PQL	mg/Kg	J	E, E, A

Sample ID: DUP16-SA5B-QC-010611

Collected: 1/6/2011 9:40:00 AM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	6.93		0.0642	MDL	0.428	PQL	mg/Kg	J	E, E, A, Q
BERYLLIUM	0.688		0.0171	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.0419	J	0.0385	MDL	0.107	PQL	mg/Kg	J	Z, FD
CHROMIUM	21.1		0.128	MDL	0.428	PQL	mg/Kg	J	Q, E
COPPER	7.20		0.0706	MDL	0.428	PQL	mg/Kg	J	Q
LEAD	6.13		0.0111	MDL	0.214	PQL	mg/Kg	J	Q, E
SILVER	0.0128	U	0.0128	MDL	0.107	PQL	mg/Kg	UJ	FD
THALLIUM	0.382		0.0321	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	40.6		0.0235	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	63.3		0.599	MDL	3.21	PQL	mg/Kg	J	A

Sample ID: SL-050-SA5B-SB-3.0-4.0

Collected: 1/6/2011 3:44:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.130	J	0.0644	MDL	0.215	PQL	mg/Kg	J	Z, Q

Sample ID: SL-050-SA5B-SB-3.0-4.0

Collected: 1/6/2011 3:44:00 PM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.136	J	0.0429	MDL	0.429	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-050-SA5B-SB-3.0-4.0

Collected: 1/6/2011 3:44:00 PM

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	128		0.116	MDL	0.429	PQL	mg/Kg	J	E, E, A

Sample ID: SL-050-SA5B-SB-3.0-4.0

Collected: 1/6/2011 3:44:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	5.10		0.0644	MDL	0.429	PQL	mg/Kg	J	E, E, A, Q
BERYLLIUM	0.569		0.0172	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.105	J	0.0386	MDL	0.107	PQL	mg/Kg	J	Z
CHROMIUM	19.6		0.129	MDL	0.429	PQL	mg/Kg	J	Q, E
COPPER	7.17		0.0708	MDL	0.429	PQL	mg/Kg	J	Q
LEAD	3.32		0.0112	MDL	0.215	PQL	mg/Kg	J	Q, E
THALLIUM	0.295		0.0322	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	39.7		0.0236	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	69.9		0.601	MDL	3.22	PQL	mg/Kg	J	A

Sample ID: SL-051-SA5B-SB-3.0-4.0

Collected: 1/6/2011 2:45:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.265		0.0681	MDL	0.227	PQL	mg/Kg	J	Q

Sample ID: SL-051-SA5B-SB-3.0-4.0

Collected: 1/6/2011 2:45:00 PM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.167	J	0.0454	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: SL-051-SA5B-SB-3.0-4.0

Collected: 1/6/2011 2:45:00 PM

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	139		0.122	MDL	0.454	PQL	mg/Kg	J	E, E, A

Sample ID: SL-051-SA5B-SB-3.0-4.0

Collected: 1/6/2011 2:45:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.98		0.0681	MDL	0.454	PQL	mg/Kg	J	E, E, A, Q
BERYLLIUM	0.975		0.0181	MDL	0.113	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-051-SA5B-SB-3.0-4.0

Collected: 1/6/2011 2:45:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0643	J	0.0408	MDL	0.113	PQL	mg/Kg	J	Z
CHROMIUM	29.2		0.136	MDL	0.454	PQL	mg/Kg	J	Q, E
COPPER	11.2		0.0749	MDL	0.454	PQL	mg/Kg	J	Q
LEAD	8.79		0.0118	MDL	0.227	PQL	mg/Kg	J	Q, E
SILVER	0.0289	J	0.0136	MDL	0.113	PQL	mg/Kg	J	Z
THALLIUM	0.347		0.0340	MDL	0.113	PQL	mg/Kg	J	Q
VANADIUM	52.3		0.0250	MDL	0.113	PQL	mg/Kg	J	Q
ZINC	77.5		0.635	MDL	3.40	PQL	mg/Kg	J	A

Sample ID: SL-058-SA5B-SB-4.0-5.0

Collected: 1/6/2011 3:47:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.192	J	0.0651	MDL	0.217	PQL	mg/Kg	J	Z, Q

Sample ID: SL-058-SA5B-SB-4.0-5.0

Collected: 1/6/2011 3:47:00 PM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.161	J	0.0434	MDL	0.434	PQL	mg/Kg	J	Z

Sample ID: SL-058-SA5B-SB-4.0-5.0

Collected: 1/6/2011 3:47:00 PM

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	83.5		0.117	MDL	0.434	PQL	mg/Kg	J	E, E, A

Sample ID: SL-058-SA5B-SB-4.0-5.0

Collected: 1/6/2011 3:47:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	5.88		0.0651	MDL	0.434	PQL	mg/Kg	J	E, E, A, Q
BERYLLIUM	0.488		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E
CHROMIUM	18.5		0.130	MDL	0.434	PQL	mg/Kg	J	Q, E
COPPER	8.74		0.0717	MDL	0.434	PQL	mg/Kg	J	Q
LEAD	5.23		0.0113	MDL	0.217	PQL	mg/Kg	J	Q, E
THALLIUM	0.284		0.0326	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	36.8		0.0239	MDL	0.109	PQL	mg/Kg	J	Q
ZINC	67.5		0.608	MDL	3.26	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-063-SA5B-SB-3.0-4.0

Collected: 1/6/2011 12:07:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.214	J	0.0644	MDL	0.215	PQL	mg/Kg	J	Z, Q

Sample ID: SL-063-SA5B-SB-3.0-4.0

Collected: 1/6/2011 12:07:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.276	J	0.0429	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-063-SA5B-SB-3.0-4.0

Collected: 1/6/2011 12:07:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	166		0.116	MDL	0.429	PQL	mg/Kg	J	E, E, A

Sample ID: SL-063-SA5B-SB-3.0-4.0

Collected: 1/6/2011 12:07:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.90		0.0644	MDL	0.429	PQL	mg/Kg	J	E, E, A, Q
BERYLLIUM	1.00		0.0172	MDL	0.107	PQL	mg/Kg	J	Q, E
CHROMIUM	29.5		0.129	MDL	0.429	PQL	mg/Kg	J	Q, E
COPPER	10.4		0.0708	MDL	0.429	PQL	mg/Kg	J	Q
LEAD	8.67		0.0112	MDL	0.215	PQL	mg/Kg	J	Q, E
SILVER	0.0330	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z
THALLIUM	0.374		0.0322	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	56.4		0.0236	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	72.3		0.601	MDL	3.22	PQL	mg/Kg	J	A

Sample ID: SL-066-SA5B-SB-3.0-4.0

Collected: 1/6/2011 9:38:00 AM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.163	J	0.0635	MDL	0.212	PQL	mg/Kg	J	Z, Q

Sample ID: SL-066-SA5B-SB-3.0-4.0

Collected: 1/6/2011 9:38:00 AM

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.124	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-066-SA5B-SB-3.0-4.0

Collected: 1/6/2011 9:38:00 AM

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	92.4		0.114	MDL	0.424	PQL	mg/Kg	J	E, E, A

Sample ID: SL-066-SA5B-SB-3.0-4.0

Collected: 1/6/2011 9:38:00 AM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	5.22		0.0635	MDL	0.424	PQL	mg/Kg	J	E, E, A, Q
BERYLLIUM	0.546		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.114		0.0381	MDL	0.106	PQL	mg/Kg	J	FD
CHROMIUM	27.2		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E
COPPER	9.16		0.0699	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	5.26		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, E
SILVER	0.0202	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, FD
THALLIUM	0.256		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	38.1		0.0233	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	62.2		0.593	MDL	3.18	PQL	mg/Kg	J	A

Sample ID: SL-137-SA5B-SS-0.0-0.5

Collected: 1/6/2011 10:58:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0756	J	0.0655	MDL	0.218	PQL	mg/Kg	J	Z, Q

Sample ID: SL-137-SA5B-SS-0.0-0.5

Collected: 1/6/2011 10:58:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0437	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: SL-137-SA5B-SS-0.0-0.5

Collected: 1/6/2011 10:58:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.118	MDL	0.437	PQL	mg/Kg	J	E, E, A

Sample ID: SL-137-SA5B-SS-0.0-0.5

Collected: 1/6/2011 10:58:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	3.85		0.0655	MDL	0.437	PQL	mg/Kg	J	E, E, A, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-137-SA5B-SS-0.0-0.5

Collected: 1/6/2011 10:58:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.561		0.0175	MDL	0.109	PQL	mg/Kg	J	Q, E
CHROMIUM	16.5		0.131	MDL	0.437	PQL	mg/Kg	J	Q, E
COPPER	11.2		0.0720	MDL	0.437	PQL	mg/Kg	J	Q
LEAD	5.92		0.0114	MDL	0.218	PQL	mg/Kg	J	Q, E
SILVER	0.0301	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z
THALLIUM	0.249		0.0327	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	33.9		0.0240	MDL	0.109	PQL	mg/Kg	J	Q
ZINC	60.1		0.611	MDL	3.27	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: DUP16-SA5B-QC-010611

Collected: 1/6/2011 9:40:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z, FD

Sample ID: SL-051-SA5B-SB-3.0-4.0

Collected: 1/6/2011 2:45:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.30	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-058-SA5B-SB-4.0-5.0

Collected: 1/6/2011 3:47:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-063-SA5B-SB-3.0-4.0

Collected: 1/6/2011 12:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-066-SA5B-SB-3.0-4.0

Collected: 1/6/2011 9:38:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	U	0.22	MDL	1.1	PQL	mg/Kg	UJ	FD

Sample ID: SL-137-SA5B-SS-0.0-0.5

Collected: 1/6/2011 10:58:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.23	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-063-SA5B-SB-3.0-4.0

Collected: 1/6/2011 12:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0039	J	0.0030	MDL	0.106	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C

Matrix: SO

Sample ID: SL-050-SA5B-SB-3.0-4.0

Collected: 1/6/2011 3:44:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	20.5	J	18.2	MDL	36.5	PQL	ng/Kg	J	Z

Sample ID: SL-051-SA5B-SB-3.0-4.0

Collected: 1/6/2011 2:45:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	21.0	J	19.5	MDL	38.9	PQL	ng/Kg	J	Z

Sample ID: SL-063-SA5B-SB-3.0-4.0

Collected: 1/6/2011 12:07:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	24.5	J	18.1	MDL	36.1	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: AQ

Sample ID: EB18-SA5B-010611

Collected: 1/6/2011 1:00:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	0.12	U	0.12	MDL	0.58	PQL	ug/L	UJ	L
Aroclor 5442	0.12	U	0.12	MDL	0.58	PQL	ug/L	UJ	L
Aroclor 5460	0.12	U	0.12	MDL	0.58	PQL	ug/L	UJ	L

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: DUP16-SA5B-QC-010611

Collected: 1/6/2011 9:40:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-050-SA5B-SB-3.0-4.0

Collected: 1/6/2011 3:44:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-051-SA5B-SB-3.0-4.0

Collected: 1/6/2011 2:45:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L

Sample ID: SL-058-SA5B-SB-4.0-5.0

Collected: 1/6/2011 3:47:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-063-SA5B-SB-3.0-4.0

Collected: 1/6/2011 12:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-066-SA5B-SB-3.0-4.0

Collected: 1/6/2011 9:38:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-137-SA5B-SS-0.0-0.5

Collected: 1/6/2011 10:58:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.75	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.36	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8151A

Matrix: SO

Sample ID: SL-137-SA5B-SS-0.0-0.5

Collected: 1/6/2011 10:58:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.9	U	4.9	MDL	9.9	PQL	ug/Kg	R	Q
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA								
Method:	8270C			Matrix:	AQ				

Sample ID: EB18-SA5B-010611 Collected: 1/6/2011 1:00:00 PM Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

Method Category:	SVOA								
Method:	8270C			Matrix:	SO				

Sample ID: SL-066-SA5B-SB-3.0-4.0 Collected: 1/6/2011 9:38:00 AM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	R	Q

Method Category:	SVOA								
Method:	8270C SIM			Matrix:	AQ				

Sample ID: EB18-SA5B-010611 Collected: 1/6/2011 1:00:00 PM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.24	J	0.050	MDL	1.0	PQL	ug/L	U	B
Diethylphthalate	0.21	J	0.050	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.63	J	0.050	MDL	1.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.069	J	0.050	MDL	1.0	PQL	ug/L	U	B
NAPHTHALENE	0.030	J	0.010	MDL	0.050	PQL	ug/L	J	Z
N-NITROSODIMETHYLAMINE	0.010	U	0.010	MDL	0.050	PQL	ug/L	UJ	L

Method Category:	SVOA								
Method:	8270C SIM			Matrix:	SO				

Sample ID: DUP16-SA5B-QC-010611 Collected: 1/6/2011 9:40:00 AM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	FD
BIS(2-ETHYLHEXYL)PHTHALATE	9.5	J	6.5	MDL	19	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA
Method:	8270C SIM
Matrix:	SO

Sample ID: SL-050-SA5B-SB-3.0-4.0 Collected: 1/6/2011 3:44:00 PM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	7.0	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-058-SA5B-SB-4.0-5.0 Collected: 1/6/2011 3:47:00 PM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	8.6	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-066-SA5B-SB-3.0-4.0 Collected: 1/6/2011 9:38:00 AM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.88	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BIS(2-ETHYLHEXYL)PHthalate	6.6	U	6.6	MDL	20	PQL	ug/Kg	UJ	FD

Sample ID: SL-137-SA5B-SS-0.0-0.5 Collected: 1/6/2011 10:58:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	6.8	J	6.6	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	0.97	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.96	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Method Category:	VOA
Method:	8260B
Matrix:	SO

Sample ID: DUP16-SA5B-QC-010611 Collected: 1/6/2011 9:40:00 AM Analysis Type: RES Dilution: 1.02

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.2	J	0.27	MDL	4.4	PQL	ug/Kg	J	Z

Sample ID: SL-051-SA5B-SB-3.0-4.0 Collected: 1/6/2011 2:45:00 PM Analysis Type: RES Dilution: 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.76	J	0.27	MDL	4.5	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	VOA
Method:	8260B
Matrix:	SO

Sample ID: SL-058-SA5B-SB-4.0-5.0

Collected: 1/6/2011 3:47:00 PM

Analysis Type: RES

Dilution: 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.68	J	0.24	MDL	4.0	PQL	ug/Kg	J	Z

Sample ID: SL-063-SA5B-SB-3.0-4.0

Collected: 1/6/2011 12:07:00

Analysis Type: RES

Dilution: 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.33	J	0.26	MDL	4.4	PQL	ug/Kg	J	Z

Sample ID: SL-066-SA5B-SB-3.0-4.0

Collected: 1/6/2011 9:38:00 AM

Analysis Type: RES

Dilution: 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.75	J	0.27	MDL	4.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: PrepDE054_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE054

Method Blank Outlier Report

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: DE054_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B Matrix: AQ				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01048BB220731	1/13/2011 7:31:00 AM	CALCIUM	0.0891 mg/L	EB18-SA5B-010611

Method: 6010B Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P00708BB221329	1/13/2011 1:29:00 PM	PHOSPHORUS TIN	1.84 mg/Kg 1.48 mg/Kg	DUP16-SA5B-QC-010611 SL-050-SA5B-SB-3.0-4.0 SL-051-SA5B-SB-3.0-4.0 SL-058-SA5B-SB-4.0-5.0 SL-063-SA5B-SB-3.0-4.0 SL-066-SA5B-SB-3.0-4.0 SL-137-SA5B-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP16-SA5B-QC-010611(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-050-SA5B-SB-3.0-4.0(RES)	TIN	2.33 mg/Kg	2.33U mg/Kg
SL-051-SA5B-SB-3.0-4.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-058-SA5B-SB-4.0-5.0(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SL-063-SA5B-SB-3.0-4.0(RES)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-066-SA5B-SB-3.0-4.0(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-137-SA5B-SS-0.0-0.5(RES)	TIN	2.25 mg/Kg	2.25U mg/Kg

Method: 6020 Matrix: AQ				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01050BB221601A	1/13/2011 4:01:00 PM	CADMIUM LEAD	0.00029 mg/L 0.00027 mg/L	EB18-SA5B-010611

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB18-SA5B-010611(REA5)	LEAD	0.000059 mg/L	0.000059U mg/L

Method: 8260B Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB38B211250A	1/7/2011 12:50:00 PM	TOLUENE	0.15 ug/Kg	DUP16-SA5B-QC-010611 SL-050-SA5B-SB-3.0-4.0 SL-051-SA5B-SB-3.0-4.0 SL-058-SA5B-SB-4.0-5.0 SL-063-SA5B-SB-3.0-4.0 SL-066-SA5B-SB-3.0-4.0

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: DE054_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWB00B260856	1/15/2011 8:56:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate Di-n-octylphthalate	0.12 ug/L 0.088 ug/L 0.059 ug/L	EB18-SA5B-010611

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB18-SA5B-010611(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.24 ug/L	1.0U ug/L
EB18-SA5B-010611(RES)	Di-n-octylphthalate	0.069 ug/L	1.0U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: DE054_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-066-SA5B-SB-3.0-4.0MS SL-066-SA5B-SB-3.0-4.0MSD (DUP16-SA5B-QC-010611 SL-050-SA5B-SB-3.0-4.0 SL-051-SA5B-SB-3.0-4.0 SL-058-SA5B-SB-4.0-5.0 SL-063-SA5B-SB-3.0-4.0 SL-066-SA5B-SB-3.0-4.0 SL-137-SA5B-SS-0.0-0.5)	BERYLLIUM LEAD THALLIUM VANADIUM	141 171 142 151	- - - 137	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	BERYLLIUM LEAD THALLIUM VANADIUM	J (all detects)
SL-066-SA5B-SB-3.0-4.0MS SL-066-SA5B-SB-3.0-4.0MSD (DUP16-SA5B-QC-010611 SL-050-SA5B-SB-3.0-4.0 SL-051-SA5B-SB-3.0-4.0 SL-058-SA5B-SB-4.0-5.0 SL-063-SA5B-SB-3.0-4.0 SL-066-SA5B-SB-3.0-4.0 SL-137-SA5B-SS-0.0-0.5)	ANTIMONY ARSENIC CHROMIUM COPPER ZINC	65 220 42 - 162	57 131 57 73 55	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- 21 (20.00) - - -	ANTIMONY ARSENIC CHROMIUM COPPER ZINC	J(all detects) UJ(all non-detects) Zn No Qual, >4x
SL-066-SA5B-SB-3.0-4.0MS SL-066-SA5B-SB-3.0-4.0MSD (DUP16-SA5B-QC-010611 SL-050-SA5B-SB-3.0-4.0 SL-051-SA5B-SB-3.0-4.0 SL-058-SA5B-SB-4.0-5.0 SL-063-SA5B-SB-3.0-4.0 SL-066-SA5B-SB-3.0-4.0 SL-137-SA5B-SS-0.0-0.5)	BARIUM	642	331	75.00-125.00	22 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-066-SA5B-SB-3.0-4.0MS SL-066-SA5B-SB-3.0-4.0MSD (DUP16-SA5B-QC-010611 SL-050-SA5B-SB-3.0-4.0 SL-051-SA5B-SB-3.0-4.0 SL-058-SA5B-SB-4.0-5.0 SL-063-SA5B-SB-3.0-4.0 SL-066-SA5B-SB-3.0-4.0 SL-137-SA5B-SS-0.0-0.5)	ALUMINUM IRON MAGNESIUM TITANIUM	2474 3090 187 334	3990 6556 369 322	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM IRON MAGNESIUM TITANIUM	No Qual, >4x
SL-066-SA5B-SB-3.0-4.0MS SL-066-SA5B-SB-3.0-4.0MSD (DUP16-SA5B-QC-010611 SL-050-SA5B-SB-3.0-4.0 SL-051-SA5B-SB-3.0-4.0 SL-058-SA5B-SB-4.0-5.0 SL-063-SA5B-SB-3.0-4.0 SL-066-SA5B-SB-3.0-4.0 SL-137-SA5B-SS-0.0-0.5)	MANGANESE PHOSPHORUS	-34 -45	-69 -19	75.00-125.00 75.00-125.00	- -	MANGANESE PHOSPHORUS	No Qual, >4x
SL-066-SA5B-SB-3.0-4.0MS SL-066-SA5B-SB-3.0-4.0MSD (DUP16-SA5B-QC-010611 SL-050-SA5B-SB-3.0-4.0 SL-051-SA5B-SB-3.0-4.0 SL-058-SA5B-SB-4.0-5.0 SL-063-SA5B-SB-3.0-4.0 SL-066-SA5B-SB-3.0-4.0 SL-137-SA5B-SS-0.0-0.5)	CALCIUM	46	71	75.00-125.00	-	CALCIUM	No Qual, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: DE054_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-066-SA5B-SB-3.0-4.0MS SL-066-SA5B-SB-3.0-4.0MSD (SL-066-SA5B-SB-3.0-4.0)	BENZIDINE	0	20	35.00-141.00	200 (30.00)	BENZIDINE	J(all detects) R(all non-detects)

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-066-SA5B-SB-3.0-4.0MS (DUP16-SA5B-QC-010611 SL-050-SA5B-SB-3.0-4.0 SL-051-SA5B-SB-3.0-4.0 SL-056-SA5B-SB-4.0-5.0 SL-063-SA5B-SB-3.0-4.0 SL-066-SA5B-SB-3.0-4.0 SL-137-SA5B-SS-0.0-0.5)	FLUORIDE	62	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-137-SA5B-SS-0.0-0.5MS SL-137-SA5B-SS-0.0-0.5MSD (SL-137-SA5B-SS-0.0-0.5)	DALAPON	0	0	12.00-86.00	-	DALAPON	J(all detects) R(all non-detects)

Method: 8260B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-066-SA5B-SB-3.0-4.0MS SL-066-SA5B-SB-3.0-4.0MSD (SL-066-SA5B-SB-3.0-4.0)	Chlorotrifluoroethylene	135	137	70.00-130.00	-	Chlorotrifluoroethylene	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: DE054_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-066-SA5B-SB-3.0-4.0DUP (DUP16-SA5B-QC-010611)	ALUMINUM	37	20.00	J (all detects) UJ (all non-detects) B, Na, Zr No Qual OK by difference
SL -050-SA5B-SB-3.0-4.0	BORON	55	20.00	
SL -051-SA5B-SB-3.0-4.0	SODIUM	82	20.00	
SL -058-SA5B-SB-4.0-5.0	STRONTIUM	33	20.00	
SL -063-SA5B-SB-3.0-4.0	Zirconium	38	20.00	
SL -066-SA5B-SB-3.0-4.0				
SL -137-SA5B-SS-0.0-0.5)				

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-066-SA5B-SB-3.0-4.0DUP (DUP16-SA5B-QC-010611)	ANTIMONY	34	20.00	J(all detects) UJ(all non-detects)
SL -050-SA5B-SB-3.0-4.0	ARSENIC	23	20.00	
SL -051-SA5B-SB-3.0-4.0	BARIUM	44	20.00	
SL -058-SA5B-SB-4.0-5.0	BERYLLIUM	44	20.00	
SL -063-SA5B-SB-3.0-4.0	CADMIUM	44	20.00	
SL -066-SA5B-SB-3.0-4.0	CHROMIUM	22	20.00	Sb, Cd, Se, Ag No Qual OK by difference
SL -137-SA5B-SS-0.0-0.5)	LEAD	33	20.00	
	SELENIUM	34	20.00	
	SILVER	62	20.00	

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-066-SA5B-SB-3.0-4.0DUP (DUP16-SA5B-QC-010611)	HEXAVALENT CHROMIUM	200	20.00	No Qual OK by difference
SL -050-SA5B-SB-3.0-4.0				
SL -051-SA5B-SB-3.0-4.0				
SL -058-SA5B-SB-4.0-5.0				
SL -063-SA5B-SB-3.0-4.0				
SL -066-SA5B-SB-3.0-4.0				
SL -137-SA5B-SS-0.0-0.5)				

Method: 7471A

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-066-SA5B-SB-3.0-4.0DUP (DUP16-SA5B-QC-010611)	MERCURY	200	20.00	No Qual OK by difference
SL -050-SA5B-SB-3.0-4.0				
SL -051-SA5B-SB-3.0-4.0				
SL -058-SA5B-SB-4.0-5.0				
SL -063-SA5B-SB-3.0-4.0				
SL -066-SA5B-SB-3.0-4.0				
SL -137-SA5B-SS-0.0-0.5)				

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: DE054_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8WBLCSQ260928 P8WBLCSY261000 (EB18-SA5B-010611)	BENZO(A)PYRENE BENZO(K)FLUORANTHENE	118 129	117 130	64.00-115.00 72.00-122.00	- -	BENZO(A)PYRENE BENZO(K)FLUORANTHENE	J (all detects)
P8WBLCSQ260928 P8WBLCSY261000 (EB18-SA5B-010611)	N-NITROSODIMETHYLAMINE	57	55	70.00-130.00	-	N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Method: 8270C

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WCLCSY260904 (EB18-SA5B-010611)	BENZOIC ACID	-	-	10.00-69.00	80 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8082

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10108AQ240812A P10108AY240754A (EB18-SA5B-010611)	Aroclor 5442	58	62	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P1LALCSQ261106 (DUP16-SA5B-QC-010611 SL-050-SA5B-SB-3.0-4.0 SL-051-SA5B-SB-3.0-4.0 SL-058-SA5B-SB-4.0-5.0 SL-063-SA5B-SB-3.0-4.0 SL-066-SA5B-SB-3.0-4.0 SL-137-SA5B-SS-0.0-0.5)	BENZO(K)FLUORANTHENE	144	-	66.00-137.00	-	BENZO(K)FLUORANTHENE	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: DE054_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10102AQ242222A P10102AY242203A (DUP16 -SA5B-QC-010611 SL -050-SA5B-SB-3.0-4.0 SL -051-SA5B-SB-3.0-4.0 SL -063-SA5B-SB-3.0-4.0 SL -066-SA5B-SB-3.0-4.0 SL -137-SA5B-SS-0.0-0.5)	Aroclor 5442	61	73	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10103AQ241744A (SL-137-SA5B-SS-0.0-0.5)	DINOSEB	4	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 8015B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10121AQ321932A (SL-050-SA5B-SB-3.0-4.0 -063-SA5B-SB-3.0-4.0) SL	ETHANOL	116	-	75.00-112.00	-	ETHANOL	J(all detects)

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10130AQ241458A P10130AY241439A (SL-058-SA5B-SB-4.0-5.0)	Aroclor 5442	61	68	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Method: 8015B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10139AQ321925A (SL-051-SA5B-SB-3.0-4.0)	ETHANOL	119	-	75.00-112.00	-	ETHANOL	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: DE054_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1B38Q211421A (DUP16 -SA5B-QC-010611 SL -050-SA5B-SB-3.0-4.0 SL -051-SA5B-SB-3.0-4.0 SL -058-SA5B-SB-4.0-5.0 SL -063-SA5B-SB-3.0-4.0 SL -066-SA5B-SB-3.0-4.0)	Chlorotrifluoroethylene	138	-	22.00-131.00	-	Chlorotrifluoroethylene	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: DE054_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-066-SA5B-SB-3.0-4.0	DUP16-SA5B-QC-010611			
MOISTURE	9.2	7.4	22		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-066-SA5B-SB-3.0-4.0	DUP16-SA5B-QC-010611			
FLUORIDE	1.5	1.3	14	50.00	No Qualifiers Applied

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-066-SA5B-SB-3.0-4.0	DUP16-SA5B-QC-010611			
ALUMINUM	15700	15600	1	50.00	No Qualifiers Applied
BORON	2.91	2.09	33	50.00	
CALCIUM	2740	2640	4	50.00	
IRON	21800	21100	3	50.00	
LITHIUM	23.6	19.0	22	50.00	
MAGNESIUM	4750	4480	6	50.00	
PHOSPHORUS	436	420	4	50.00	
POTASSIUM	2890	2500	14	50.00	
STRONTIUM	17.3	17.9	3	50.00	
TIN	2.65	2.73	3	50.00	
TITANIUM	1220	1200	2	50.00	
MANGANESE	319	182	55	50.00	J(all detects)
SODIUM	323	106	101	50.00	
Zirconium	2.15	1.03	70	50.00	

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-066-SA5B-SB-3.0-4.0	DUP16-SA5B-QC-010611			
ANTIMONY	0.163	0.152	7	50.00	No Qualifiers Applied
ARSENIC	5.22	6.93	28	50.00	
BARIUM	92.4	110	17	50.00	
BERYLLIUM	0.546	0.688	23	50.00	
CHROMIUM	27.2	21.1	25	50.00	
COBALT	5.71	5.57	2	50.00	
COPPER	9.16	7.20	24	50.00	
LEAD	5.26	6.13	15	50.00	
MOLYBDENUM	0.467	0.429	8	50.00	
NICKEL	11.3	9.82	14	50.00	
SELENIUM	0.124	0.0868	35	50.00	
THALLIUM	0.256	0.382	39	50.00	
VANADIUM	38.1	40.6	6	50.00	
ZINC	62.2	63.3	2	50.00	
CADMIUM	0.114	0.0419	92	50.00	J(all detects)
SILVER	0.0202	0.107 U	200	50.00	UJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: DE054_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-066-SA5B-SB-3.0-4.0	DUP16-SA5B-QC-010611			
HEXAVALENT CHROMIUM	1.1 U	0.52	200	50.00	J(all detects) UJ(all non-detects)

Method: 8260B

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-066-SA5B-SB-3.0-4.0	DUP16-SA5B-QC-010611			
METHYLENE CHLORIDE	0.75	1.2	46	50.00	No Qualifiers Applied

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-066-SA5B-SB-3.0-4.0	DUP16-SA5B-QC-010611			
BENZO(G,H,I)PERYLENE	0.88	1.8 U	200	50.00	J(all detects)
BIS(2-ETHYLHEXYL)PHTHALATE	20 U	9.5	200	50.00	UJ(all non-detects)

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-066-SA5B-SB-3.0-4.0	DUP16-SA5B-QC-010611			
PH	6.14	6.29	2	50.00	No Qualifiers Applied

Method: ASTM D1498

Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-066-SA5B-SB-3.0-4.0	DUP16-SA5B-QC-010611			
Oxidation Reduction Potential	489	497	2		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: DE054_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB18-SA5B-010611	LEAD	J	0.000059	0.0010	PQL	mg/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB18-SA5B-010611	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.24	1.0	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.21	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.63	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.069	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.030	0.050	PQL	ug/L	

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA5B-SB-3.0-4.0	N-NITROSODIMETHYLAMINE	J	20.5	36.5	PQL	ng/Kg	J (all detects)
SL-051-SA5B-SB-3.0-4.0	N-NITROSODIMETHYLAMINE	J	21.0	38.9	PQL	ng/Kg	J (all detects)
SL-063-SA5B-SB-3.0-4.0	N-NITROSODIMETHYLAMINE	J	24.5	36.1	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA5B-SB-3.0-4.0	Nitrate-NO3	J	1.0	1.6	PQL	mg/Kg	J (all detects)
SL-051-SA5B-SB-3.0-4.0	Nitrate-NO3	J	1.0	1.8	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA5B-QC-010611	BORON	J	2.09	5.24	PQL	mg/Kg	J (all detects)
	TIN	J	2.73	10.5	PQL	mg/Kg	
	Zirconium	J	1.03	5.24	PQL	mg/Kg	
SL-050-SA5B-SB-3.0-4.0	BORON	J	1.67	5.42	PQL	mg/Kg	J (all detects)
	TIN	J	2.33	10.8	PQL	mg/Kg	
SL-051-SA5B-SB-3.0-4.0	BORON	J	1.52	5.73	PQL	mg/Kg	J (all detects)
	TIN	J	2.69	11.5	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: DE054_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-058-SA5B-SB-4.0-5.0	BORON	J	3.05	5.43	PQL	mg/Kg	J (all detects)
	TIN	J	2.51	10.9	PQL	mg/Kg	
	Zirconium	J	1.12	5.43	PQL	mg/Kg	
SL-063-SA5B-SB-3.0-4.0	BORON	J	1.27	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	2.82	10.6	PQL	mg/Kg	
	Zirconium	J	2.26	5.31	PQL	mg/Kg	
SL-066-SA5B-SB-3.0-4.0	BORON	J	2.91	5.45	PQL	mg/Kg	J (all detects)
	TIN	J	2.65	10.9	PQL	mg/Kg	
	Zirconium	J	2.15	5.45	PQL	mg/Kg	
SL-137-SA5B-SS-0.0-0.5	BORON	J	4.05	5.30	PQL	mg/Kg	J (all detects)
	TIN	J	2.25	10.6	PQL	mg/Kg	
	Zirconium	J	1.62	5.30	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA5B-QC-010611	ANTIMONY	J	0.152	0.214	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0419	0.107	PQL	mg/Kg	
	SELENIUM	J	0.0868	0.428	PQL	mg/Kg	
SL-050-SA5B-SB-3.0-4.0	ANTIMONY	J	0.130	0.215	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.105	0.107	PQL	mg/Kg	
	SELENIUM	J	0.136	0.429	PQL	mg/Kg	
SL-051-SA5B-SB-3.0-4.0	CADMIUM	J	0.0643	0.113	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.167	0.454	PQL	mg/Kg	
	SILVER	J	0.0289	0.113	PQL	mg/Kg	
SL-058-SA5B-SB-4.0-5.0	ANTIMONY	J	0.192	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.161	0.434	PQL	mg/Kg	
SL-063-SA5B-SB-3.0-4.0	ANTIMONY	J	0.214	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.276	0.429	PQL	mg/Kg	
	SILVER	J	0.0330	0.107	PQL	mg/Kg	
SL-066-SA5B-SB-3.0-4.0	ANTIMONY	J	0.163	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.124	0.424	PQL	mg/Kg	
	SILVER	J	0.0202	0.106	PQL	mg/Kg	
SL-137-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0756	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.144	0.437	PQL	mg/Kg	
	SILVER	J	0.0301	0.109	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA5B-QC-010611	HEXAVALENT CHROMIUM	J	0.52	1.1	PQL	mg/Kg	J (all detects)
SL-051-SA5B-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.30	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: DE054_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-058-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.35	1.1	PQL	mg/Kg	J (all detects)
SL-063-SA5B-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-137-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.23	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-063-SA5B-SB-3.0-4.0	MERCURY	J	0.0039	0.106	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-137-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.75	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.36	1.9	PQL	ug/Kg	

Method: 8260B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA5B-QC-010611	METHYLENE CHLORIDE	J	1.2	4.4	PQL	ug/Kg	J (all detects)
SL-051-SA5B-SB-3.0-4.0	METHYLENE CHLORIDE	J	0.76	4.5	PQL	ug/Kg	J (all detects)
SL-058-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.68	4.0	PQL	ug/Kg	J (all detects)
SL-063-SA5B-SB-3.0-4.0	METHYLENE CHLORIDE	J	0.33	4.4	PQL	ug/Kg	J (all detects)
SL-066-SA5B-SB-3.0-4.0	METHYLENE CHLORIDE	J	0.75	4.4	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA5B-QC-010611	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.5	19	PQL	ug/Kg	J (all detects)
SL-050-SA5B-SB-3.0-4.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.0	20	PQL	ug/Kg	J (all detects)
SL-058-SA5B-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.6	20	PQL	ug/Kg	J (all detects)
SL-066-SA5B-SB-3.0-4.0	BENZO(G,H,I)PERYLENE	J	0.88	1.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE054

Laboratory: LL

EDD Filename: DE054_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-137-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.8	20	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	0.97	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.96	1.8	PQL	ug/Kg	

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	-	
III.	Calibration	-	
IV.	Blanks	A	EB/CB hits - No Qual
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, As, Ba, Ca, Fe, Mg, Mn, P, Ti, Zn 74x)
VII.	Duplicate Sample Analysis	N	Dup (Sb, B, Cd, Hg, Se, Tl, Zn, Pb < 5x RL)
VIII.	Laboratory Control Samples (LCS)	A	LCS Na, Ag, (no out by difference)
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	SW/A (As: 11%, Ba: 17%, Zn: 11%)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	SEU	EB=1

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

soil/water

1	EB18-SA5B-010611	W	11	SL-066-SA5B-SB-3.0-4.0DUP	21		31	
2	SL-137-SA5B-SS-0.0-0.5		12		22		32	
3	SL-063-SA5B-SB-3.0-4.0		13		23		33	
4	SL-066-SA5B-SB-3.0-4.0		14		24		34	
5	DUP16-SA5B-QC-010611		15		25		35	
6	SL-058-SA5B-SB-4.0-5.0		16		26		36	
7	SL-051-SA5B-SB-3.0-4.0		17		27		37	
8	SL-050-SA5B-SB-3.0-4.0		18		28		38	
9	SL-066-SA5B-SB-3.0-4.0MS		19		29		39	
10	SL-066-SA5B-SB-3.0-4.0MSD		20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET

Field Blanks

Page: 1 of 1
Reviewer: SL
2nd Reviewer: CA

METHOD: Trace Metals (EPA SW846 6010B/7000)

	Y	N	N/A
Were field blanks identified in this SDG?	Y	N	N/A
Were target analytes detected in the field blanks?	Y	N	N/A

Blank units: ug/L Associated sample units: mg/Kg

Sampling date: 1/6/11 Soil factor applied 100x

Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: _____ All Soil

[illegible]

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

SAMPLE DELIVERY GROUP

DE055

Attachment I

Sample ID Cross Reference and Data Review Level

Page 1 of 1

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jan-2011	TB-010711	6180118	TB	5030B	8260B	III
07-Jan-2011	TB-010711	6180118	TB	5030B	8260B SIM	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0	6180105	N	3050B	6010B	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0	6180105	N	3050B	6020	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0	6180105	N	3060A	7199	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0	6180105	N	3550B	8082	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0	6180105	N	3550B	8270C	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0	6180105	N	3550B	8270C SIM	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0	6180105	N	5035	8260B	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0	6180105	N	5035	8260B SIM	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0	6180105	N	Gen Prep	9045M	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0	6180105	N	METHOD	300.0	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0	6180105	N	METHOD	314.0	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0	6180105	N	METHOD	7471A	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0DUP	P180105D220749	DUP	3050B	6010B	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0DUP	P180105D221112	DUP	3050B	6010B	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0DUP	P180105D221630A	DUP	3050B	6020	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0DUP	P180105D221630B	DUP	3050B	6020	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0DUP	P180105D221630C	DUP	3050B	6020	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0DUP	P180105D221630D	DUP	3050B	6020	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0MSD	P180105M220758	MSD	3050B	6010B	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0MSD	P180105M221119	MSD	3050B	6010B	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0MSD	P180105M221636A	MSD	3050B	6020	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0MSD	P180105M221636B	MSD	3050B	6020	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0MSD	P180105M221636C	MSD	3050B	6020	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0MSD	P180105M221636D	MSD	3050B	6020	III

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IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0MS	P180105R220753	MS	3050B	6010B	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0MS	P180105R221115	MS	3050B	6010B	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0MS	P180105R221633A	MS	3050B	6020	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0MS	P180105R221633B	MS	3050B	6020	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0MS	P180105R221633C	MS	3050B	6020	III
07-Jan-2011	SL-059-SA5B-SB-4.0-5.0MS	P180105R221633D	MS	3050B	6020	III
07-Jan-2011	SL-059-SA5B-SB-8.5-9.5	6180106	N	3050B	6010B	III
07-Jan-2011	SL-059-SA5B-SB-8.5-9.5	6180106	N	3050B	6020	III
07-Jan-2011	SL-059-SA5B-SB-8.5-9.5	6180106	N	3060A	7199	III
07-Jan-2011	SL-059-SA5B-SB-8.5-9.5	6180106	N	3550B	8082	III
07-Jan-2011	SL-059-SA5B-SB-8.5-9.5	6180106	N	3550B	8270C	III
07-Jan-2011	SL-059-SA5B-SB-8.5-9.5	6180106	N	3550B	8270C SIM	III
07-Jan-2011	SL-059-SA5B-SB-8.5-9.5	6180106	N	Gen Prep	9045M	III
07-Jan-2011	SL-059-SA5B-SB-8.5-9.5	6180106	N	METHOD	300.0	III
07-Jan-2011	SL-059-SA5B-SB-8.5-9.5	6180106	N	METHOD	314.0	III
07-Jan-2011	SL-059-SA5B-SB-8.5-9.5	6180106	N	METHOD	7471A	III
07-Jan-2011	SL-059-SA5B-SB-8.5-9.5DUP	P180106D220628	DUP	METHOD	7471A	III
07-Jan-2011	SL-059-SA5B-SB-8.5-9.5MSD	P180106M220630	MSD	METHOD	7471A	III
07-Jan-2011	SL-059-SA5B-SB-8.5-9.5MS	P180106R220629	MS	METHOD	7471A	III
07-Jan-2011	SL-060-SA5B-SB-4.0-5.0	6180107	N	3050B	6010B	III
07-Jan-2011	SL-060-SA5B-SB-4.0-5.0	6180107	N	3050B	6020	III
07-Jan-2011	SL-060-SA5B-SB-4.0-5.0	6180107	N	3060A	7199	III
07-Jan-2011	SL-060-SA5B-SB-4.0-5.0	6180107	N	3550B	8082	III
07-Jan-2011	SL-060-SA5B-SB-4.0-5.0	6180107	N	3550B	8270C	III
07-Jan-2011	SL-060-SA5B-SB-4.0-5.0	6180107	N	3550B	8270C SIM	III
07-Jan-2011	SL-060-SA5B-SB-4.0-5.0	6180107	N	5035	8260B	III

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MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jan-2011	SL-060-SA5B-SB-4.0-5.0	6180107	N	5035	8260B SIM	III
07-Jan-2011	SL-060-SA5B-SB-4.0-5.0	6180107	N	Gen Prep	9045M	III
07-Jan-2011	SL-060-SA5B-SB-4.0-5.0	6180107	N	METHOD	300.0	III
07-Jan-2011	SL-060-SA5B-SB-4.0-5.0	6180107	N	METHOD	314.0	III
07-Jan-2011	SL-060-SA5B-SB-4.0-5.0	6180107	N	METHOD	7471A	III
07-Jan-2011	SL-060-SA5B-SB-4.0-5.0DUP	P180107D290845B	DUP	Gen Prep	9045M	III
07-Jan-2011	SL-060-SA5B-SB-4.0-5.0MS	P180107R212008A	MS	5035	8260B	III
07-Jan-2011	SL-060-SA5B-SB-9.0-10	6180108	N	3050B	6010B	III
07-Jan-2011	SL-060-SA5B-SB-9.0-10	6180108	N	3050B	6020	III
07-Jan-2011	SL-060-SA5B-SB-9.0-10	6180108	N	3060A	7199	III
07-Jan-2011	SL-060-SA5B-SB-9.0-10	6180108	N	3550B	8082	III
07-Jan-2011	SL-060-SA5B-SB-9.0-10	6180108	N	3550B	8270C	III
07-Jan-2011	SL-060-SA5B-SB-9.0-10	6180108	N	3550B	8270C SIM	III
07-Jan-2011	SL-060-SA5B-SB-9.0-10	6180108	N	Gen Prep	9045M	III
07-Jan-2011	SL-060-SA5B-SB-9.0-10	6180108	N	METHOD	300.0	III
07-Jan-2011	SL-060-SA5B-SB-9.0-10	6180108	N	METHOD	314.0	III
07-Jan-2011	SL-060-SA5B-SB-9.0-10	6180108	N	METHOD	7471A	III
07-Jan-2011	SL-060-SA5B-SB-9.0-10DUP	P180108D270720B	DUP	METHOD	300.0	III
07-Jan-2011	SL-060-SA5B-SB-9.0-10DUP	P180108D271906A	DUP	METHOD	314.0	III
07-Jan-2011	SL-060-SA5B-SB-9.0-10MS	P180108R270734B	MS	METHOD	300.0	III
07-Jan-2011	SL-060-SA5B-SB-9.0-10MS	P180108R271929A	MS	METHOD	314.0	III
07-Jan-2011	EB19-SA5B-010711	6180109	EB	3510C	8015B	III
07-Jan-2011	EB19-SA5B-010711	6180109	EB	3510C	8015M	III
07-Jan-2011	EB19-SA5B-010711	6180109	EB	3520C	1625C	III
07-Jan-2011	EB19-SA5B-010711	6180109	EB	5030B	8015M	III
07-Jan-2011	EB19-SA5B-010711	6180109	EB	8330	8330A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jan-2011	EB19-SA5B-010711	6180109	EB	Gen Prep	300.0	III
07-Jan-2011	EB19-SA5B-010711	6180109	EB	Gen Prep	8015B	III
07-Jan-2011	EB19-SA5B-010711	6180109	EB	Gen Prep	8015M	III
07-Jan-2011	EB19-SA5B-010711	6180109	EB	Gen Prep	9040B	III
07-Jan-2011	EB19-SA5B-010711	6180109	EB	METHOD	8315A	III
07-Jan-2011	EB19-SA5B-010711	6180109	EB	METHOD	9012B	III
07-Jan-2011	EB19-SA5B-010711MSD	P180109M321856A	MSD	Gen Prep	8015B	III
07-Jan-2011	EB19-SA5B-010711MS	P180109R321841A	MS	Gen Prep	8015B	III
07-Jan-2011	SL-055-SA5B-SB-4.0-5.0	6180110	N	3050B	6010B	III
07-Jan-2011	SL-055-SA5B-SB-4.0-5.0	6180110	N	3050B	6020	III
07-Jan-2011	SL-055-SA5B-SB-4.0-5.0	6180110	N	3060A	7199	III
07-Jan-2011	SL-055-SA5B-SB-4.0-5.0	6180110	N	3550B	8082	III
07-Jan-2011	SL-055-SA5B-SB-4.0-5.0	6180110	N	3550B	8270C	III
07-Jan-2011	SL-055-SA5B-SB-4.0-5.0	6180110	N	3550B	8270C SIM	III
07-Jan-2011	SL-055-SA5B-SB-4.0-5.0	6180110	N	5035	8260B	III
07-Jan-2011	SL-055-SA5B-SB-4.0-5.0	6180110	N	5035	8260B SIM	III
07-Jan-2011	SL-055-SA5B-SB-4.0-5.0	6180110	N	Gen Prep	9045M	III
07-Jan-2011	SL-055-SA5B-SB-4.0-5.0	6180110	N	METHOD	300.0	III
07-Jan-2011	SL-055-SA5B-SB-4.0-5.0	6180110	N	METHOD	314.0	III
07-Jan-2011	SL-055-SA5B-SB-4.0-5.0	6180110	N	METHOD	7471A	III
07-Jan-2011	SL-055-SA5B-SB-4.0-5.0DUP	P180110D270512B	DUP	METHOD	314.0	III
07-Jan-2011	SL-055-SA5B-SB-4.0-5.0MS	P180110R270535B	MS	METHOD	314.0	III
07-Jan-2011	SL-055-SA5B-SB-8.5-9.5	6180111	N	3050B	6010B	III
07-Jan-2011	SL-055-SA5B-SB-8.5-9.5	6180111	N	3050B	6020	III
07-Jan-2011	SL-055-SA5B-SB-8.5-9.5	6180111	N	3060A	7199	III
07-Jan-2011	SL-055-SA5B-SB-8.5-9.5	6180111	N	3550B	8082	III

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FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jan-2011	SL-055-SA5B-SB-8.5-9.5	6180111	N	3550B	8270C	III
07-Jan-2011	SL-055-SA5B-SB-8.5-9.5	6180111	N	3550B	8270C SIM	III
07-Jan-2011	SL-055-SA5B-SB-8.5-9.5	6180111	N	Gen Prep	9045M	III
07-Jan-2011	SL-055-SA5B-SB-8.5-9.5	6180111	N	METHOD	300.0	III
07-Jan-2011	SL-055-SA5B-SB-8.5-9.5	6180111	N	METHOD	314.0	III
07-Jan-2011	SL-055-SA5B-SB-8.5-9.5	6180111	N	METHOD	6850	III
07-Jan-2011	SL-055-SA5B-SB-8.5-9.5	6180111	N	METHOD	7471A	III
07-Jan-2011	SL-056-SA5B-SB-4.0-5.0	6180114	N	3050B	6010B	III
07-Jan-2011	SL-056-SA5B-SB-4.0-5.0	6180114	N	3050B	6020	III
07-Jan-2011	SL-056-SA5B-SB-4.0-5.0	6180114	N	3060A	7199	III
07-Jan-2011	SL-056-SA5B-SB-4.0-5.0	6180114	N	3550B	8082	III
07-Jan-2011	SL-056-SA5B-SB-4.0-5.0	6180114	N	3550B	8270C	III
07-Jan-2011	SL-056-SA5B-SB-4.0-5.0	6180114	N	3550B	8270C SIM	III
07-Jan-2011	SL-056-SA5B-SB-4.0-5.0	6180114	N	5035	8260B	III
07-Jan-2011	SL-056-SA5B-SB-4.0-5.0	6180114	N	5035	8260B SIM	III
07-Jan-2011	SL-056-SA5B-SB-4.0-5.0	6180114	N	Gen Prep	9045M	III
07-Jan-2011	SL-056-SA5B-SB-4.0-5.0	6180114	N	METHOD	300.0	III
07-Jan-2011	SL-056-SA5B-SB-4.0-5.0	6180114	N	METHOD	314.0	III
07-Jan-2011	SL-056-SA5B-SB-4.0-5.0	6180114	N	METHOD	7471A	III
07-Jan-2011	SL-056-SA5B-SB-9.0-10.0	6180115	N	3050B	6010B	III
07-Jan-2011	SL-056-SA5B-SB-9.0-10.0	6180115	N	3050B	6020	III
07-Jan-2011	SL-056-SA5B-SB-9.0-10.0	6180115	N	3060A	7199	III
07-Jan-2011	SL-056-SA5B-SB-9.0-10.0	6180115	N	3550B	8082	III
07-Jan-2011	SL-056-SA5B-SB-9.0-10.0	6180115	N	3550B	8270C	III
07-Jan-2011	SL-056-SA5B-SB-9.0-10.0	6180115	N	3550B	8270C SIM	III
07-Jan-2011	SL-056-SA5B-SB-9.0-10.0	6180115	N	Gen Prep	9045M	III

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MS = Matrix Spike
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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jan-2011	SL-056-SA5B-SB-9.0-10.0	6180115	N	METHOD	300.0	III
07-Jan-2011	SL-056-SA5B-SB-9.0-10.0	6180115	N	METHOD	314.0	III
07-Jan-2011	SL-056-SA5B-SB-9.0-10.0	6180115	N	METHOD	7471A	III
07-Jan-2011	SL-062-SA5B-SB-4.0-5.0	6180112	N	3050B	6010B	III
07-Jan-2011	SL-062-SA5B-SB-4.0-5.0	6180112	N	3050B	6020	III
07-Jan-2011	SL-062-SA5B-SB-4.0-5.0	6180112	N	3060A	7199	III
07-Jan-2011	SL-062-SA5B-SB-4.0-5.0	6180112	N	3550B	8082	III
07-Jan-2011	SL-062-SA5B-SB-4.0-5.0	6180112	N	3550B	8270C	III
07-Jan-2011	SL-062-SA5B-SB-4.0-5.0	6180112	N	3550B	8270C SIM	III
07-Jan-2011	SL-062-SA5B-SB-4.0-5.0	6180112	N	5035	8260B	III
07-Jan-2011	SL-062-SA5B-SB-4.0-5.0	6180112	N	5035	8260B SIM	III
07-Jan-2011	SL-062-SA5B-SB-4.0-5.0	6180112	N	Gen Prep	9045M	III
07-Jan-2011	SL-062-SA5B-SB-4.0-5.0	6180112	N	METHOD	300.0	III
07-Jan-2011	SL-062-SA5B-SB-4.0-5.0	6180112	N	METHOD	314.0	III
07-Jan-2011	SL-062-SA5B-SB-4.0-5.0	6180112	N	METHOD	7471A	III
07-Jan-2011	SL-062-SA5B-SB-9.0-10.0	6180113	N	3050B	6010B	III
07-Jan-2011	SL-062-SA5B-SB-9.0-10.0	6180113	N	3050B	6020	III
07-Jan-2011	SL-062-SA5B-SB-9.0-10.0	6180113	N	3060A	7199	III
07-Jan-2011	SL-062-SA5B-SB-9.0-10.0	6180113	N	3550B	8082	III
07-Jan-2011	SL-062-SA5B-SB-9.0-10.0	6180113	N	3550B	8270C	III
07-Jan-2011	SL-062-SA5B-SB-9.0-10.0	6180113	N	3550B	8270C SIM	III
07-Jan-2011	SL-062-SA5B-SB-9.0-10.0	6180113	N	Gen Prep	9045M	III
07-Jan-2011	SL-062-SA5B-SB-9.0-10.0	6180113	N	METHOD	300.0	III
07-Jan-2011	SL-062-SA5B-SB-9.0-10.0	6180113	N	METHOD	314.0	III
07-Jan-2011	SL-062-SA5B-SB-9.0-10.0	6180113	N	METHOD	7471A	III
07-Jan-2011	SL-234-SA5B-SB-2.5-3.5	6180117	N	3050B	6010B	III

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FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jan-2011	SL-234-SA5B-SB-2.5-3.5	6180117	N	3050B	6020	III
07-Jan-2011	SL-234-SA5B-SB-2.5-3.5	6180117	N	3060A	7199	III
07-Jan-2011	SL-234-SA5B-SB-2.5-3.5	6180117	N	3550B	8082	III
07-Jan-2011	SL-234-SA5B-SB-2.5-3.5	6180117	N	3550B	8270C	III
07-Jan-2011	SL-234-SA5B-SB-2.5-3.5	6180117	N	3550B	8270C SIM	III
07-Jan-2011	SL-234-SA5B-SB-2.5-3.5	6180117	N	5035	8260B	III
07-Jan-2011	SL-234-SA5B-SB-2.5-3.5	6180117	N	5035	8260B SIM	III
07-Jan-2011	SL-234-SA5B-SB-2.5-3.5	6180117	N	Gen Prep	9045M	III
07-Jan-2011	SL-234-SA5B-SB-2.5-3.5	6180117	N	METHOD	300.0	III
07-Jan-2011	SL-234-SA5B-SB-2.5-3.5	6180117	N	METHOD	314.0	III
07-Jan-2011	SL-234-SA5B-SB-2.5-3.5	6180117	N	METHOD	7471A	III
07-Jan-2011	SL-061-SA5B-SB-3.5-4.5	6180116	N	3050B	6010B	III
07-Jan-2011	SL-061-SA5B-SB-3.5-4.5	6180116	N	3050B	6020	III
07-Jan-2011	SL-061-SA5B-SB-3.5-4.5	6180116	N	3060A	7199	III
07-Jan-2011	SL-061-SA5B-SB-3.5-4.5	6180116	N	3550B	8082	III
07-Jan-2011	SL-061-SA5B-SB-3.5-4.5	6180116	N	3550B	8270C	III
07-Jan-2011	SL-061-SA5B-SB-3.5-4.5	6180116	N	3550B	8270C SIM	III
07-Jan-2011	SL-061-SA5B-SB-3.5-4.5	6180116	N	5035	8260B	III
07-Jan-2011	SL-061-SA5B-SB-3.5-4.5	6180116	N	5035	8260B SIM	III
07-Jan-2011	SL-061-SA5B-SB-3.5-4.5	6180116	N	Gen Prep	9045M	III
07-Jan-2011	SL-061-SA5B-SB-3.5-4.5	6180116	N	METHOD	300.0	III
07-Jan-2011	SL-061-SA5B-SB-3.5-4.5	6180116	N	METHOD	314.0	III
07-Jan-2011	SL-061-SA5B-SB-3.5-4.5	6180116	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	EM
Method:	9040B
Matrix:	AQ

Sample ID: EB19-SA5B-010711 Collected: 1/7/2011 11:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PH	6.5		0.010	MDL	0.010	PQL	pH unit	J	H

Method Category:	GENCHEM
Method:	300.0
Matrix:	SO

Sample ID: SL-059-SA5B-SB-4.0-5.0 Collected: 1/7/2011 9:23:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.0	J	0.86	MDL	1.1	PQL	mg/Kg	J	Z

Method Category:	METALS
Method:	6010B
Matrix:	SO

Sample ID: SL-055-SA5B-SB-4.0-5.0 Collected: 1/7/2011 12:16:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6320		6.42	MDL	20.9	PQL	mg/Kg	J	E
PHOSPHORUS	426		0.587	MDL	10.5	PQL	mg/Kg	J	Q
TIN	2.27	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-055-SA5B-SB-8.5-9.5 Collected: 1/7/2011 12:22:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5660		6.72	MDL	21.9	PQL	mg/Kg	J	E
PHOSPHORUS	402		0.614	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.38	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.61	J	0.921	MDL	5.48	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA5B-SB-4.0-5.0 Collected: 1/7/2011 1:49:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5150		6.45	MDL	21.0	PQL	mg/Kg	J	E
PHOSPHORUS	395		0.589	MDL	10.5	PQL	mg/Kg	J	Q
TIN	2.28	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-056-SA5B-SB-9.0-10.0

Collected: 1/7/2011 1:53:00 PM

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.91	J	0.954	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA5B-SB-9.0-10.0

Collected: 1/7/2011 1:53:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6580		6.57	MDL	21.4	PQL	mg/Kg	J	E
PHOSPHORUS	439		0.600	MDL	10.7	PQL	mg/Kg	J	Q
TIN	2.46	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.13	J	0.900	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA5B-SB-4.0-5.0

Collected: 1/7/2011 9:23:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	7600		6.52	MDL	21.3	PQL	mg/Kg	J	E
PHOSPHORUS	402		0.596	MDL	10.6	PQL	mg/Kg	J	Q
TIN	2.35	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	0.924	J	0.893	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA5B-SB-8.5-9.5

Collected: 1/7/2011 9:28:00 AM

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.02	J	0.974	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA5B-SB-8.5-9.5

Collected: 1/7/2011 9:28:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4340		6.71	MDL	21.9	PQL	mg/Kg	J	E
PHOSPHORUS	379		0.613	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.36	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.04	J	0.919	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-060-SA5B-SB-4.0-5.0

Collected: 1/7/2011 11:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	33700		6.68	MDL	21.8	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-060-SA5B-SB-4.0-5.0

Collected: 1/7/2011 11:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	551		0.611	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.41	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.97	J	0.916	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-060-SA5B-SB-9.0-10

Collected: 1/7/2011 11:10:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.28	J	0.914	MDL	5.14	PQL	mg/Kg	J	Z

Sample ID: SL-060-SA5B-SB-9.0-10

Collected: 1/7/2011 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	7350		6.30	MDL	20.5	PQL	mg/Kg	J	E
PHOSPHORUS	447		0.575	MDL	10.3	PQL	mg/Kg	J	Q
TIN	2.49	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.05	J	0.863	MDL	5.14	PQL	mg/Kg	J	Z

Sample ID: SL-061-SA5B-SB-3.5-4.5

Collected: 1/7/2011 4:05:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6810		6.55	MDL	21.4	PQL	mg/Kg	J	E
PHOSPHORUS	384		0.599	MDL	10.7	PQL	mg/Kg	J	Q
TIN	2.35	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	0.939	J	0.898	MDL	5.35	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA5B-SB-4.0-5.0

Collected: 1/7/2011 2:04:00 PM

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.46	J	0.974	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA5B-SB-4.0-5.0

Collected: 1/7/2011 2:04:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	22000		6.71	MDL	21.9	PQL	mg/Kg	J	E
PHOSPHORUS	518		0.613	MDL	10.9	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-062-SA5B-SB-4.0-5.0

Collected: 1/7/2011 2:04:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.34	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.39	J	0.919	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA5B-SB-9.0-10.0

Collected: 1/7/2011 2:09:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4980		6.45	MDL	21.0	PQL	mg/Kg	J	E
PHOSPHORUS	503		0.589	MDL	10.5	PQL	mg/Kg	J	Q
TIN	2.25	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-234-SA5B-SB-2.5-3.5

Collected: 1/7/2011 3:09:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2580		6.47	MDL	21.1	PQL	mg/Kg	J	E
PHOSPHORUS	371		0.591	MDL	10.5	PQL	mg/Kg	J	Q
TIN	1.98	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-055-SA5B-SB-4.0-5.0

Collected: 1/7/2011 12:16:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.150	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-055-SA5B-SB-4.0-5.0

Collected: 1/7/2011 12:16:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.184	J	0.0647	MDL	0.216	PQL	mg/Kg	J	Z, Q
ARSENIC	6.83		0.0647	MDL	0.431	PQL	mg/Kg	J	Q
CHROMIUM	24.3		0.129	MDL	0.431	PQL	mg/Kg	J	Q, E
COBALT	6.53		0.0216	MDL	0.108	PQL	mg/Kg	J	A
COPPER	9.94		0.0712	MDL	0.431	PQL	mg/Kg	J	A
LEAD	7.25		0.0112	MDL	0.216	PQL	mg/Kg	J	Q
SILVER	0.0355	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-055-SA5B-SB-4.0-5.0

Collected: 1/7/2011 12:16:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	43.7		0.0237	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-055-SA5B-SB-8.5-9.5

Collected: 1/7/2011 12:22:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.117	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-055-SA5B-SB-8.5-9.5

Collected: 1/7/2011 12:22:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.127	J	0.0627	MDL	0.209	PQL	mg/Kg	J	Z, Q
ARSENIC	6.69		0.0627	MDL	0.418	PQL	mg/Kg	J	Q
CHROMIUM	20.5		0.125	MDL	0.418	PQL	mg/Kg	J	Q, E
COBALT	6.04		0.0209	MDL	0.104	PQL	mg/Kg	J	A
COPPER	9.60		0.0689	MDL	0.418	PQL	mg/Kg	J	A
LEAD	7.80		0.0109	MDL	0.209	PQL	mg/Kg	J	Q
SILVER	0.0319	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	37.1		0.0230	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-056-SA5B-SB-4.0-5.0

Collected: 1/7/2011 1:49:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.150	J	0.0433	MDL	0.433	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA5B-SB-4.0-5.0

Collected: 1/7/2011 1:49:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.153	J	0.0650	MDL	0.217	PQL	mg/Kg	J	Z, Q
ARSENIC	6.57		0.0650	MDL	0.433	PQL	mg/Kg	J	Q
CHROMIUM	23.1		0.130	MDL	0.433	PQL	mg/Kg	J	Q, E
COBALT	6.85		0.0217	MDL	0.108	PQL	mg/Kg	J	A
COPPER	10.3		0.0715	MDL	0.433	PQL	mg/Kg	J	A
LEAD	7.05		0.0113	MDL	0.217	PQL	mg/Kg	J	Q
VANADIUM	43.6		0.0238	MDL	0.108	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-056-SA5B-SB-9.0-10.0

Collected: 1/7/2011 1:53:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0433	MDL	0.433	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA5B-SB-9.0-10.0

Collected: 1/7/2011 1:53:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.448		0.0649	MDL	0.216	PQL	mg/Kg	J	Q
ARSENIC	7.27		0.0649	MDL	0.433	PQL	mg/Kg	J	Q
CHROMIUM	23.8		0.130	MDL	0.433	PQL	mg/Kg	J	Q, E
COBALT	6.80		0.0216	MDL	0.108	PQL	mg/Kg	J	A
COPPER	10.5		0.0714	MDL	0.433	PQL	mg/Kg	J	A
LEAD	32.0		0.0113	MDL	0.216	PQL	mg/Kg	J	Q
SILVER	0.0311	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	44.4		0.0238	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-059-SA5B-SB-4.0-5.0

Collected: 1/7/2011 9:23:00 AM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.114	J	0.0413	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA5B-SB-4.0-5.0

Collected: 1/7/2011 9:23:00 AM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.208		0.0620	MDL	0.207	PQL	mg/Kg	J	Q
ARSENIC	5.40		0.0620	MDL	0.413	PQL	mg/Kg	J	Q
CHROMIUM	19.9		0.124	MDL	0.413	PQL	mg/Kg	J	Q, E
COBALT	5.25		0.0207	MDL	0.103	PQL	mg/Kg	J	A
COPPER	8.01		0.0682	MDL	0.413	PQL	mg/Kg	J	A
LEAD	5.47		0.0107	MDL	0.207	PQL	mg/Kg	J	Q
SILVER	0.0173	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	36.5		0.0227	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-059-SA5B-SB-8.5-9.5

Collected: 1/7/2011 9:28:00 AM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0433	MDL	0.433	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-059-SA5B-SB-8.5-9.5

Collected: 1/7/2011 9:28:00 AM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.192	J	0.0650	MDL	0.217	PQL	mg/Kg	J	Z, Q
ARSENIC	6.42		0.0650	MDL	0.433	PQL	mg/Kg	J	Q
CHROMIUM	27.8		0.130	MDL	0.433	PQL	mg/Kg	J	Q, E
COBALT	6.49		0.0217	MDL	0.108	PQL	mg/Kg	J	A
COPPER	10.0		0.0715	MDL	0.433	PQL	mg/Kg	J	A
LEAD	6.77		0.0113	MDL	0.217	PQL	mg/Kg	J	Q
SILVER	0.0280	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	44.0		0.0238	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-060-SA5B-SB-4.0-5.0

Collected: 1/7/2011 11:05:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.190	J	0.0436	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SL-060-SA5B-SB-4.0-5.0

Collected: 1/7/2011 11:05:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.126	J	0.0654	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	6.38		0.0654	MDL	0.436	PQL	mg/Kg	J	Q
CHROMIUM	31.3		0.131	MDL	0.436	PQL	mg/Kg	J	Q, E
COBALT	7.57		0.0218	MDL	0.109	PQL	mg/Kg	J	A
COPPER	11.7		0.0720	MDL	0.436	PQL	mg/Kg	J	A
LEAD	8.34		0.0113	MDL	0.218	PQL	mg/Kg	J	Q
SILVER	0.0233	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	61.9		0.0240	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-060-SA5B-SB-9.0-10

Collected: 1/7/2011 11:10:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.122	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-060-SA5B-SB-9.0-10

Collected: 1/7/2011 11:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.337		0.0647	MDL	0.216	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-060-SA5B-SB-9.0-10

Collected: 1/7/2011 11:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	6.66		0.0647	MDL	0.431	PQL	mg/Kg	J	Q
CHROMIUM	29.0		0.129	MDL	0.431	PQL	mg/Kg	J	Q, E
COBALT	6.24		0.0216	MDL	0.108	PQL	mg/Kg	J	A
COPPER	8.94		0.0712	MDL	0.431	PQL	mg/Kg	J	A
LEAD	6.33		0.0112	MDL	0.216	PQL	mg/Kg	J	Q
SILVER	0.0322	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	42.9		0.0237	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-061-SA5B-SB-3.5-4.5

Collected: 1/7/2011 4:05:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.151	J	0.0432	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-061-SA5B-SB-3.5-4.5

Collected: 1/7/2011 4:05:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.218		0.0648	MDL	0.216	PQL	mg/Kg	J	Q
ARSENIC	7.74		0.0648	MDL	0.432	PQL	mg/Kg	J	Q
CHROMIUM	20.9		0.130	MDL	0.432	PQL	mg/Kg	J	Q, E
COBALT	6.03		0.0216	MDL	0.108	PQL	mg/Kg	J	A
COPPER	9.60		0.0713	MDL	0.432	PQL	mg/Kg	J	A
LEAD	5.13		0.0112	MDL	0.216	PQL	mg/Kg	J	Q
SILVER	0.0189	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	38.0		0.0238	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-062-SA5B-SB-4.0-5.0

Collected: 1/7/2011 2:04:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.270	J	0.0429	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA5B-SB-4.0-5.0

Collected: 1/7/2011 2:04:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.243		0.0644	MDL	0.215	PQL	mg/Kg	J	Q
ARSENIC	8.28		0.0644	MDL	0.429	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-062-SA5B-SB-4.0-5.0

Collected: 1/7/2011 2:04:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	38.1		0.129	MDL	0.429	PQL	mg/Kg	J	Q, E
COBALT	9.55		0.0215	MDL	0.107	PQL	mg/Kg	J	A
COPPER	15.1		0.0708	MDL	0.429	PQL	mg/Kg	J	A
LEAD	10.3		0.0112	MDL	0.215	PQL	mg/Kg	J	Q
SILVER	0.0330	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	71.0		0.0236	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-062-SA5B-SB-9.0-10.0

Collected: 1/7/2011 2:09:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.179	J	0.0425	MDL	0.425	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA5B-SB-9.0-10.0

Collected: 1/7/2011 2:09:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.164	J	0.0637	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	6.49		0.0637	MDL	0.425	PQL	mg/Kg	J	Q
CHROMIUM	24.6		0.127	MDL	0.425	PQL	mg/Kg	J	Q, E
COBALT	7.34		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	10.2		0.0701	MDL	0.425	PQL	mg/Kg	J	A
LEAD	12.9		0.0110	MDL	0.212	PQL	mg/Kg	J	Q
VANADIUM	44.8		0.0234	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-234-SA5B-SB-2.5-3.5

Collected: 1/7/2011 3:09:00 PM

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0852	J	0.0434	MDL	0.434	PQL	mg/Kg	J	Z

Sample ID: SL-234-SA5B-SB-2.5-3.5

Collected: 1/7/2011 3:09:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0805	J	0.0651	MDL	0.217	PQL	mg/Kg	J	Z, Q
ARSENIC	4.43		0.0651	MDL	0.434	PQL	mg/Kg	J	Q
CADMIUM	0.0575	J	0.0391	MDL	0.109	PQL	mg/Kg	J	Z
CHROMIUM	19.7		0.130	MDL	0.434	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-234-SA5B-SB-2.5-3.5

Collected: 1/7/2011 3:09:00 PM

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	6.11		0.0217	MDL	0.109	PQL	mg/Kg	J	A
COPPER	6.53		0.0717	MDL	0.434	PQL	mg/Kg	J	A
LEAD	4.25		0.0113	MDL	0.217	PQL	mg/Kg	J	Q
SILVER	0.0187	J	0.0130	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	38.7		0.0239	MDL	0.109	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-055-SA5B-SB-8.5-9.5

Collected: 1/7/2011 12:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA5B-SB-4.0-5.0

Collected: 1/7/2011 1:49:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.23	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA5B-SB-4.0-5.0

Collected: 1/7/2011 9:23:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.72	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA5B-SB-4.0-5.0

Collected: 1/7/2011 2:04:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA5B-SB-9.0-10.0

Collected: 1/7/2011 2:09:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.23	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-055-SA5B-SB-4.0-5.0

Collected: 1/7/2011 12:16:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0657	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-055-SA5B-SB-8.5-9.5

Collected: 1/7/2011 12:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0158	J	0.0030	MDL	0.104	PQL	mg/Kg	U	B

Sample ID: SL-056-SA5B-SB-4.0-5.0

Collected: 1/7/2011 1:49:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0768	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA5B-SB-9.0-10.0

Collected: 1/7/2011 1:53:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0207	J	0.0029	MDL	0.103	PQL	mg/Kg	U	B

Sample ID: SL-059-SA5B-SB-4.0-5.0

Collected: 1/7/2011 9:23:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0601	J	0.0028	MDL	0.0993	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA5B-SB-8.5-9.5

Collected: 1/7/2011 9:28:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0363	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-060-SA5B-SB-4.0-5.0

Collected: 1/7/2011 11:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0163	J	0.0030	MDL	0.104	PQL	mg/Kg	U	B

Sample ID: SL-060-SA5B-SB-9.0-10

Collected: 1/7/2011 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0520	J	0.0029	MDL	0.103	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-061-SA5B-SB-3.5-4.5

Collected: 1/7/2011 4:05:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0355	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA5B-SB-4.0-5.0

Collected: 1/7/2011 2:04:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0349	J	0.0032	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA5B-SB-9.0-10.0

Collected: 1/7/2011 2:09:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0105	J	0.0031	MDL	0.107	PQL	mg/Kg	U	B

Sample ID: SL-234-SA5B-SB-2.5-3.5

Collected: 1/7/2011 3:09:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0098	J	0.0031	MDL	0.107	PQL	mg/Kg	U	B

Method Category: SVOA

Method: 1625C

Matrix: AQ

Sample ID: EB19-SA5B-010711

Collected: 1/7/2011 11:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.99		0.535	MDL	1.07	PQL	ng/L	UJ	B, S

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-055-SA5B-SB-4.0-5.0

Collected: 1/7/2011 12:16:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.6	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.4	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-055-SA5B-SB-8.5-9.5

Collected: 1/7/2011 12:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.7	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z, L

Sample ID: SL-056-SA5B-SB-4.0-5.0

Collected: 1/7/2011 1:49:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.6	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z, L

Sample ID: SL-056-SA5B-SB-9.0-10.0

Collected: 1/7/2011 1:53:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-059-SA5B-SB-4.0-5.0

Collected: 1/7/2011 9:23:00 AM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	15		0.35	MDL	1.8	PQL	ug/Kg	J	S
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.6	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, S, L

Sample ID: SL-059-SA5B-SB-8.5-9.5

Collected: 1/7/2011 9:28:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	6.9		1.1	MDL	3.6	PQL	ug/Kg	J	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-060-SA5B-SB-4.0-5.0

Collected: 1/7/2011 11:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.1	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-060-SA5B-SB-9.0-10

Collected: 1/7/2011 11:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.3	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.5	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z, L

Sample ID: SL-061-SA5B-SB-3.5-4.5

Collected: 1/7/2011 4:05:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.80	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-062-SA5B-SB-4.0-5.0

Collected: 1/7/2011 2:04:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	3.3		0.36	MDL	1.9	PQL	ug/Kg	J	S
AROCLOR 1254	2.2		0.36	MDL	1.9	PQL	ug/Kg	J	S
AROCLOR 1260	0.65	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z, S
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-062-SA5B-SB-9.0-10.0

Collected: 1/7/2011 2:09:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.5	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-062-SA5B-SB-9.0-10.0

Collected: 1/7/2011 2:09:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-234-SA5B-SB-2.5-3.5

Collected: 1/7/2011 3:09:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-055-SA5B-SB-4.0-5.0

Collected: 1/7/2011 12:16:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	18	J	18	MDL	180	PQL	ug/Kg	J	Z
CHRYSENE	19	J	18	MDL	180	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-055-SA5B-SB-4.0-5.0

Collected: 1/7/2011 12:16:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.5	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.7	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.75	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, L
FLUORANTHENE	0.87	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.0	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-055-SA5B-SB-8.5-9.5

Collected: 1/7/2011 12:22:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.74	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, L
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-056-SA5B-SB-4.0-5.0

Collected: 1/7/2011 1:49:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.2	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, L
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.5	MDL	20	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.81	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.97	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-056-SA5B-SB-9.0-10.0

Collected: 1/7/2011 1:53:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, L
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.6	MDL	20	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-059-SA5B-SB-4.0-5.0

Collected: 1/7/2011 9:23:00 AM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.95	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.7	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	6.4	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-059-SA5B-SB-4.0-5.0

Collected: 1/7/2011 9:23:00 AM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	0.78	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.99	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-059-SA5B-SB-8.5-9.5

Collected: 1/7/2011 9:28:00 AM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.60	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	3.7		0.73	MDL	1.8	PQL	ug/Kg	J	L
DIBENZO(A,H)ANTHRACENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.75	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-060-SA5B-SB-4.0-5.0

Collected: 1/7/2011 11:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.90	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.59	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-060-SA5B-SB-9.0-10

Collected: 1/7/2011 11:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.97	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, L
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.5	MDL	19	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-061-SA5B-SB-3.5-4.5

Collected: 1/7/2011 4:05:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.95	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, L
PHENANTHRENE	0.99	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-062-SA5B-SB-4.0-5.0

Collected: 1/7/2011 2:04:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.89	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.68	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-062-SA5B-SB-9.0-10.0

Collected: 1/7/2011 2:09:00 PM

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.36	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	2.1		0.72	MDL	1.8	PQL	ug/Kg	J	L
BIS(2-ETHYLHEXYL)PHTHALATE	8.6	J	6.5	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.92	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.78	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A

Matrix: AQ

Sample ID: EB19-SA5B-010711

Collected: 1/7/2011 11:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	17	J	10	MDL	50	PQL	ug/L	J	Z

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-055-SA5B-SB-4.0-5.0

Collected: 1/7/2011 12:16:00

Analysis Type: RES

Dilution: 0.94

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.39	J	0.24	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-056-SA5B-SB-4.0-5.0

Collected: 1/7/2011 1:49:00 PM

Analysis Type: RES

Dilution: 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.63	J	0.25	MDL	4.2	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-059-SA5B-SB-4.0-5.0

Collected: 1/7/2011 9:23:00 AM

Analysis Type: RES

Dilution: 1.02

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.79	J	0.26	MDL	4.4	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.09	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-060-SA5B-SB-4.0-5.0

Collected: 1/7/2011 11:05:00

Analysis Type: RES

Dilution: 0.85

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.54	J	0.23	MDL	3.8	PQL	ug/Kg	U	B

Sample ID: SL-061-SA5B-SB-3.5-4.5

Collected: 1/7/2011 4:05:00 PM

Analysis Type: RES

Dilution: 1.04

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.91	J	0.27	MDL	4.6	PQL	ug/Kg	U	B

Sample ID: SL-062-SA5B-SB-4.0-5.0

Collected: 1/7/2011 2:04:00 PM

Analysis Type: RES

Dilution: 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.83	J	0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.10	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-234-SA5B-SB-2.5-3.5

Collected: 1/7/2011 3:09:00 PM

Analysis Type: RES

Dilution: 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.48	J	0.26	MDL	4.3	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

CONFIDENTIAL

7

Quality Control Outlier Reports

DE055

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: DE055_v1

eQAPP Name: CDM_SSFL_110509

Method: 9040B

Preparation Method: Gen Prep

Matrix: AQ

<i>Sample ID</i>	<i>Type</i>	<i>Actual</i>	<i>Criteria</i>	<i>Units</i>	<i>Flag</i>
EB19-SA5B-010711 (RES)	Sampling To Analysis	101.00	48.00	HOURS	J (all detects) R (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: DE055_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWG01B260547	1/20/2011 5:47:00 AM	N-NITROSODIMETHYLAMINE	0.548 ng/L	EB19-SA5B-010711

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB19-SA5B-010711(RES)	N-NITROSODIMETHYLAMINE	1.99 ng/L	1.99U ng/L

Method: 6010B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01008BB220730	1/17/2011 7:30:00 AM	PHOSPHORUS TIN	2.20 mg/Kg 1.37 mg/Kg	SL-055-SA5B-SB-4.0-5.0 SL-055-SA5B-SB-8.5-9.5 SL-056-SA5B-SB-4.0-5.0 SL-056-SA5B-SB-9.0-10.0 SL-059-SA5B-SB-4.0-5.0 SL-059-SA5B-SB-8.5-9.5 SL-060-SA5B-SB-4.0-5.0 SL-060-SA5B-SB-9.0-10.0 SL-061-SA5B-SB-3.5-4.5 SL-062-SA5B-SB-4.0-5.0 SL-062-SA5B-SB-9.0-10.0 SL-234-SA5B-SB-2.5-3.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-055-SA5B-SB-4.0-5.0(RES)	TIN	2.27 mg/Kg	2.27U mg/Kg
SL-055-SA5B-SB-8.5-9.5(RES)	TIN	2.38 mg/Kg	2.38U mg/Kg
SL-056-SA5B-SB-4.0-5.0(RES)	TIN	2.28 mg/Kg	2.28U mg/Kg
SL-056-SA5B-SB-9.0-10.0(RES)	TIN	2.46 mg/Kg	2.46U mg/Kg
SL-059-SA5B-SB-4.0-5.0(RES)	TIN	2.35 mg/Kg	2.35U mg/Kg
SL-059-SA5B-SB-8.5-9.5(RES)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-060-SA5B-SB-4.0-5.0(RES)	TIN	2.41 mg/Kg	2.41U mg/Kg
SL-060-SA5B-SB-9.0-10(RES)	TIN	2.49 mg/Kg	2.49U mg/Kg
SL-061-SA5B-SB-3.5-4.5(RES)	TIN	2.35 mg/Kg	2.35U mg/Kg
SL-062-SA5B-SB-4.0-5.0(RES)	TIN	2.34 mg/Kg	2.34U mg/Kg
SL-062-SA5B-SB-9.0-10.0(RES)	TIN	2.25 mg/Kg	2.25U mg/Kg
SL-234-SA5B-SB-2.5-3.5(RES)	TIN	1.98 mg/Kg	1.98U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: DE055_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01026AB221618A	1/12/2011 4:18:00 PM	ARSENIC ZINC	0.0708 mg/Kg 0.963 mg/Kg	SL-055-SA5B-SB-4.0-5.0 SL-055-SA5B-SB-8.5-9.5 SL-056-SA5B-SB-4.0-5.0 SL-056-SA5B-SB-9.0-10.0 SL-059-SA5B-SB-4.0-5.0 SL-059-SA5B-SB-8.5-9.5 SL-060-SA5B-SB-4.0-5.0 SL-060-SA5B-SB-9.0-10 SL-061-SA5B-SB-3.5-4.5 SL-062-SA5B-SB-4.0-5.0 SL-062-SA5B-SB-9.0-10.0 SL-234-SA5B-SB-2.5-3.5

Method: 7471A

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01011BB220620	1/12/2011 6:20:00 AM	MERCURY	0.0050 mg/Kg	SL-055-SA5B-SB-4.0-5.0 SL-055-SA5B-SB-8.5-9.5 SL-056-SA5B-SB-4.0-5.0 SL-056-SA5B-SB-9.0-10.0 SL-059-SA5B-SB-4.0-5.0 SL-059-SA5B-SB-8.5-9.5 SL-060-SA5B-SB-4.0-5.0 SL-060-SA5B-SB-9.0-10 SL-061-SA5B-SB-3.5-4.5 SL-062-SA5B-SB-4.0-5.0 SL-062-SA5B-SB-9.0-10.0 SL-234-SA5B-SB-2.5-3.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-055-SA5B-SB-8.5-9.5(RES)	MERCURY	0.0158 mg/Kg	0.0158U mg/Kg
SL-056-SA5B-SB-9.0-10.0(RES)	MERCURY	0.0207 mg/Kg	0.0207U mg/Kg
SL-060-SA5B-SB-4.0-5.0(RES)	MERCURY	0.0163 mg/Kg	0.0163U mg/Kg
SL-062-SA5B-SB-9.0-10.0(RES)	MERCURY	0.0105 mg/Kg	0.0105U mg/Kg
SL-234-SA5B-SB-2.5-3.5(RES)	MERCURY	0.0098 mg/Kg	0.0098U mg/Kg

Method: 8260B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB43B211431A	1/11/2011 2:31:00 PM	METHYLENE CHLORIDE TOLUENE	0.63 ug/Kg 0.18 ug/Kg	SL-055-SA5B-SB-4.0-5.0 SL-056-SA5B-SB-4.0-5.0 SL-059-SA5B-SB-4.0-5.0 SL-060-SA5B-SB-4.0-5.0 SL-061-SA5B-SB-3.5-4.5 SL-062-SA5B-SB-4.0-5.0 SL-234-SA5B-SB-2.5-3.5

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Method Blank Outlier Report

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: DE055_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-055-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.39 ug/Kg	4.0U ug/Kg
SL-056-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.63 ug/Kg	4.2U ug/Kg
SL-059-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.79 ug/Kg	4.4U ug/Kg
SL-059-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.09 ug/Kg	4.4U ug/Kg
SL-060-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.54 ug/Kg	3.8U ug/Kg
SL-061-SA5B-SB-3.5-4.5(RES)	METHYLENE CHLORIDE	0.91 ug/Kg	4.6U ug/Kg
SL-062-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.83 ug/Kg	3.9U ug/Kg
SL-062-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.10 ug/Kg	3.9U ug/Kg
SL-234-SA5B-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	0.48 ug/Kg	4.3U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: DE055_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015B

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
EB19-SA5B-010711MSD (EB19-SA5B-010711)	ETHANOL	-	152	62.00-145.00	-	ETHANOL	J(all detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-059-SA5B-SB-4.0-5.0MS SL-059-SA5B-SB-4.0-5.0MSD (SL-055-SA5B-SB-4.0-5.0 SL-055-SA5B-SB-8.5-9.5 SL-056-SA5B-SB-4.0-5.0 SL-056-SA5B-SB-9.0-10.0 SL-059-SA5B-SB-4.0-5.0 SL-059-SA5B-SB-8.5-9.5 SL-060-SA5B-SB-4.0-5.0 SL-060-SA5B-SB-9.0-10 SL-061-SA5B-SB-3.5-4.5 SL-062-SA5B-SB-4.0-5.0 SL-062-SA5B-SB-9.0-10.0 SL-234-SA5B-SB-2.5-3.5)	ARSENIC LEAD VANADIUM ZINC	- - - 131	132 126 127 200	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ARSENIC LEAD VANADIUM ZINC	J (all detects) Zn No Qual, >4x
SL-059-SA5B-SB-4.0-5.0MS SL-059-SA5B-SB-4.0-5.0MSD (SL-055-SA5B-SB-4.0-5.0 SL-055-SA5B-SB-8.5-9.5 SL-056-SA5B-SB-4.0-5.0 SL-056-SA5B-SB-9.0-10.0 SL-059-SA5B-SB-4.0-5.0 SL-059-SA5B-SB-8.5-9.5 SL-060-SA5B-SB-4.0-5.0 SL-060-SA5B-SB-9.0-10 SL-061-SA5B-SB-3.5-4.5 SL-062-SA5B-SB-4.0-5.0 SL-062-SA5B-SB-9.0-10.0 SL-234-SA5B-SB-2.5-3.5)	ANTIMONY CHROMIUM	46 74	40 -	75.00-125.00 75.00-125.00	- -	ANTIMONY CHROMIUM	J(all detects) UJ(all non-detects)

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-059-SA5B-SB-4.0-5.0MS SL-059-SA5B-SB-4.0-5.0MSD (SL-055-SA5B-SB-4.0-5.0 SL-055-SA5B-SB-8.5-9.5 SL-056-SA5B-SB-4.0-5.0 SL-056-SA5B-SB-9.0-10.0 SL-059-SA5B-SB-4.0-5.0 SL-059-SA5B-SB-8.5-9.5 SL-060-SA5B-SB-4.0-5.0 SL-060-SA5B-SB-9.0-10 SL-061-SA5B-SB-3.5-4.5 SL-062-SA5B-SB-4.0-5.0 SL-062-SA5B-SB-9.0-10.0 SL-234-SA5B-SB-2.5-3.5)	ALUMINUM TITANIUM	707 285	198 206	75.00-125.00 75.00-125.00	- -	ALUMINUM TITANIUM	No Qual, >4x

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: DE055_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-059-SA5B-SB-4.0-5.0MS SL-059-SA5B-SB-4.0-5.0MSD (SL-055-SA5B-SB-4.0-5.0 SL-055-SA5B-SB-8.5-9.5 SL-056-SA5B-SB-4.0-5.0 SL-056-SA5B-SB-9.0-10.0 SL-059-SA5B-SB-4.0-5.0 SL-059-SA5B-SB-8.5-9.5 SL-060-SA5B-SB-4.0-5.0 SL-060-SA5B-SB-9.0-10 SL-061-SA5B-SB-3.5-4.5 SL-062-SA5B-SB-4.0-5.0 SL-062-SA5B-SB-9.0-10.0 SL-234-SA5B-SB-2.5-3.5)	CALCIUM IRON MAGNESIUM	-355 -358 29	-530 -1706 -42	75.00-125.00 75.00-125.00 75.00-125.00	- - -	CALCIUM IRON MAGNESIUM	No Qual, >4x
SL-059-SA5B-SB-4.0-5.0MSD (SL-055-SA5B-SB-4.0-5.0 SL-055-SA5B-SB-8.5-9.5 SL-056-SA5B-SB-4.0-5.0 SL-056-SA5B-SB-9.0-10.0 SL-059-SA5B-SB-4.0-5.0 SL-059-SA5B-SB-8.5-9.5 SL-060-SA5B-SB-4.0-5.0 SL-060-SA5B-SB-9.0-10 SL-061-SA5B-SB-3.5-4.5 SL-062-SA5B-SB-4.0-5.0 SL-062-SA5B-SB-9.0-10.0 SL-234-SA5B-SB-2.5-3.5)	MANGANESE PHOSPHORUS	- -	56 57	75.00-125.00 75.00-125.00	- -	MANGANESE PHOSPHORUS	J(all detects) UJ(all non-detects) Mn No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: DE055_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-059-SA5B-SB-4.0-5.0DUP (SL-055-SA5B-SB-4.0-5.0 SL -055-SA5B-SB-8.5-9.5 SL -056-SA5B-SB-4.0-5.0 SL -056-SA5B-SB-9.0-10.0 SL -059-SA5B-SB-4.0-5.0 SL -059-SA5B-SB-8.5-9.5 SL -060-SA5B-SB-4.0-5.0 SL -060-SA5B-SB-9.0-10 SL -061-SA5B-SB-3.5-4.5 SL -062-SA5B-SB-4.0-5.0 SL -062-SA5B-SB-9.0-10.0 SL -234-SA5B-SB-2.5-3.5)	CALCIUM Zirconium	27 31	20.00 20.00	J (all detects) UJ (all non-detects) Zr No Qual OK by difference

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-059-SA5B-SB-4.0-5.0DUP (SL-055-SA5B-SB-4.0-5.0 SL -055-SA5B-SB-8.5-9.5 SL -056-SA5B-SB-4.0-5.0 SL -056-SA5B-SB-9.0-10.0 SL -059-SA5B-SB-4.0-5.0 SL -059-SA5B-SB-8.5-9.5 SL -060-SA5B-SB-4.0-5.0 SL -060-SA5B-SB-9.0-10 SL -061-SA5B-SB-3.5-4.5 SL -062-SA5B-SB-4.0-5.0 SL -062-SA5B-SB-9.0-10.0 SL -234-SA5B-SB-2.5-3.5)	ANTIMONY CADMIUM CHROMIUM SELENIUM SILVER	29 22 21 25 34	20.00 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Sb, Cd, Se, Ag No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P01026AQ221621A (SL-055-SA5B-SB-4.0-5.0 SL-055-SA5B-SB-8.5-9.5 SL-056-SA5B-SB-4.0-5.0 SL-056-SA5B-SB-9.0-10.0 SL-059-SA5B-SB-4.0-5.0 SL-059-SA5B-SB-8.5-9.5 SL-060-SA5B-SB-4.0-5.0 SL-060-SA5B-SB-9.0-10.0 SL-061-SA5B-SB-3.5-4.5 SL-062-SA5B-SB-4.0-5.0 SL-062-SA5B-SB-9.0-10.0 SL-234-SA5B-SB-2.5-3.5)	ANTIMONY	123	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P1LALCSQ261106 (SL-055-SA5B-SB-4.0-5.0 SL-055-SA5B-SB-8.5-9.5 SL-056-SA5B-SB-4.0-5.0 SL-056-SA5B-SB-9.0-10.0 SL-059-SA5B-SB-4.0-5.0 SL-059-SA5B-SB-8.5-9.5 SL-060-SA5B-SB-4.0-5.0 SL-060-SA5B-SB-9.0-10.0 SL-061-SA5B-SB-3.5-4.5 SL-062-SA5B-SB-4.0-5.0 SL-062-SA5B-SB-9.0-10.0 SL-234-SA5B-SB-2.5-3.5)	BENZO(K)FLUORANTHENE	144	-	66.00-137.00	-	BENZO(K)FLUORANTHENE	J(all detects)

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10102AQ242222A P10102AY242203A (SL-055-SA5B-SB-4.0-5.0 SL-055-SA5B-SB-8.5-9.5 SL-056-SA5B-SB-4.0-5.0 SL-059-SA5B-SB-4.0-5.0 SL-059-SA5B-SB-8.5-9.5 SL-060-SA5B-SB-4.0-5.0 SL-060-SA5B-SB-9.0-10.0 SL-061-SA5B-SB-3.5-4.5 SL-062-SA5B-SB-4.0-5.0 SL-062-SA5B-SB-9.0-10.0 SL-234-SA5B-SB-2.5-3.5)	Aroclor 5442	61	73	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)
P10178AQ242305A P10178AY242246A (SL-056-SA5B-SB-9.0-10.0)	Aroclor 5442	70	66	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: PrepDE055_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1B43Q211631A LCS1B43Y211608A (SL -055-SA5B-SB-4.0-5.0 SL -056-SA5B-SB-4.0-5.0 SL -059-SA5B-SB-4.0-5.0 SL -060-SA5B-SB-4.0-5.0 SL -061-SA5B-SB-3.5-4.5 SL -062-SA5B-SB-4.0-5.0 SL -234-SA5B-SB-2.5-3.5)	Chlorotrifluoroethylene	137	145	22.00-131.00	-	Chlorotrifluoroethylene	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: DE055_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB19-SA5B-010711	N-Nitrosodimethylamine-d6	184	50.00-150.00	All Target Analytes	J (all detects)

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-059-SA5B-SB-4.0-5.0	DECACHLOROBIPHENYL	125	45.00-120.00	All Target Analytes	J(all detects)
SL-062-SA5B-SB-4.0-5.0	DECACHLOROBIPHENYL	133	45.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: DE055_v1

eQAPP Name: CDM_SSFL_110509

Method: 8315A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB19-SA5B-010711	FORMALDEHYDE	J	17	50	PQL	ug/L	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-059-SA5B-SB-4.0-5.0	FLUORIDE	J	1.0	1.1	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-055-SA5B-SB-4.0-5.0	TIN	J	2.27	10.5	PQL	mg/Kg	J (all detects)
SL-055-SA5B-SB-8.5-9.5	TIN	J	2.38	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.61	5.48	PQL	mg/Kg	
SL-056-SA5B-SB-4.0-5.0	TIN	J	2.28	10.5	PQL	mg/Kg	J (all detects)
SL-056-SA5B-SB-9.0-10.0	BORON	J	4.91	5.36	PQL	mg/Kg	J (all detects)
	TIN	J	2.46	10.7	PQL	mg/Kg	
	Zirconium	J	1.13	5.36	PQL	mg/Kg	
SL-059-SA5B-SB-4.0-5.0	TIN	J	2.35	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.924	5.32	PQL	mg/Kg	
SL-059-SA5B-SB-8.5-9.5	BORON	J	3.02	5.47	PQL	mg/Kg	J (all detects)
	TIN	J	2.36	10.9	PQL	mg/Kg	
	Zirconium	J	1.04	5.47	PQL	mg/Kg	
SL-060-SA5B-SB-4.0-5.0	TIN	J	2.41	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.97	5.45	PQL	mg/Kg	
SL-060-SA5B-SB-9.0-10	BORON	J	4.28	5.14	PQL	mg/Kg	J (all detects)
	TIN	J	2.49	10.3	PQL	mg/Kg	
	Zirconium	J	1.05	5.14	PQL	mg/Kg	
SL-061-SA5B-SB-3.5-4.5	TIN	J	2.35	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.939	5.35	PQL	mg/Kg	
SL-062-SA5B-SB-4.0-5.0	BORON	J	4.46	5.47	PQL	mg/Kg	J (all detects)
	TIN	J	2.34	10.9	PQL	mg/Kg	
	Zirconium	J	1.39	5.47	PQL	mg/Kg	
SL-062-SA5B-SB-9.0-10.0	TIN	J	2.25	10.5	PQL	mg/Kg	J (all detects)
SL-234-SA5B-SB-2.5-3.5	TIN	J	1.98	10.5	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-055-SA5B-SB-4.0-5.0	ANTIMONY	J	0.184	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.150	0.431	PQL	mg/Kg	
	SILVER	J	0.0355	0.108	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: DE055_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-055-SA5B-SB-8.5-9.5	ANTIMONY	J	0.127	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.117	0.418	PQL	mg/Kg	
	SILVER	J	0.0319	0.104	PQL	mg/Kg	
SL-056-SA5B-SB-4.0-5.0	ANTIMONY	J	0.153	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.150	0.433	PQL	mg/Kg	
SL-056-SA5B-SB-9.0-10.0	SELENIUM	J	0.132	0.433	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0311	0.108	PQL	mg/Kg	
SL-059-SA5B-SB-4.0-5.0	SELENIUM	J	0.114	0.413	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0173	0.103	PQL	mg/Kg	
SL-059-SA5B-SB-8.5-9.5	ANTIMONY	J	0.192	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.115	0.433	PQL	mg/Kg	
	SILVER	J	0.0280	0.108	PQL	mg/Kg	
SL-060-SA5B-SB-4.0-5.0	ANTIMONY	J	0.126	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.190	0.436	PQL	mg/Kg	
	SILVER	J	0.0233	0.109	PQL	mg/Kg	
SL-060-SA5B-SB-9.0-10	SELENIUM	J	0.122	0.431	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0322	0.108	PQL	mg/Kg	
SL-061-SA5B-SB-3.5-4.5	SELENIUM	J	0.151	0.432	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0189	0.108	PQL	mg/Kg	
SL-062-SA5B-SB-4.0-5.0	SELENIUM	J	0.270	0.429	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0330	0.107	PQL	mg/Kg	
SL-062-SA5B-SB-9.0-10.0	ANTIMONY	J	0.164	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.179	0.425	PQL	mg/Kg	
SL-234-SA5B-SB-2.5-3.5	ANTIMONY	J	0.0805	0.217	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0575	0.109	PQL	mg/Kg	
	SELENIUM	J	0.0852	0.434	PQL	mg/Kg	
	SILVER	J	0.0187	0.109	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-055-SA5B-SB-8.5-9.5	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-056-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.23	1.1	PQL	mg/Kg	J (all detects)
SL-059-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.72	1.1	PQL	mg/Kg	J (all detects)
SL-062-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-062-SA5B-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.23	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-055-SA5B-SB-4.0-5.0	MERCURY	J	0.0657	0.101	PQL	mg/Kg	J (all detects)
SL-055-SA5B-SB-8.5-9.5	MERCURY	J	0.0158	0.104	PQL	mg/Kg	J (all detects)
SL-056-SA5B-SB-4.0-5.0	MERCURY	J	0.0768	0.105	PQL	mg/Kg	J (all detects)

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Reporting Limit Outliers

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: DE055_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-056-SA5B-SB-9.0-10.0	MERCURY	J	0.0207	0.103	PQL	mg/Kg	J (all detects)
SL-059-SA5B-SB-4.0-5.0	MERCURY	J	0.0601	0.0993	PQL	mg/Kg	J (all detects)
SL-059-SA5B-SB-8.5-9.5	MERCURY	J	0.0363	0.108	PQL	mg/Kg	J (all detects)
SL-060-SA5B-SB-4.0-5.0	MERCURY	J	0.0163	0.104	PQL	mg/Kg	J (all detects)
SL-060-SA5B-SB-9.0-10	MERCURY	J	0.0520	0.103	PQL	mg/Kg	J (all detects)
SL-061-SA5B-SB-3.5-4.5	MERCURY	J	0.0355	0.108	PQL	mg/Kg	J (all detects)
SL-062-SA5B-SB-4.0-5.0	MERCURY	J	0.0349	0.110	PQL	mg/Kg	J (all detects)
SL-062-SA5B-SB-9.0-10.0	MERCURY	J	0.0105	0.107	PQL	mg/Kg	J (all detects)
SL-234-SA5B-SB-2.5-3.5	MERCURY	J	0.0098	0.107	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-055-SA5B-SB-4.0-5.0	AROCLOR 1260	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.4	3.6	PQL	ug/Kg	
SL-055-SA5B-SB-8.5-9.5	Aroclor 5460	J	1.7	3.6	PQL	ug/Kg	J (all detects)
SL-056-SA5B-SB-4.0-5.0	Aroclor 5460	J	1.6	3.6	PQL	ug/Kg	J (all detects)
SL-059-SA5B-SB-4.0-5.0	Aroclor 5460	J	1.6	3.5	PQL	ug/Kg	J (all detects)
SL-060-SA5B-SB-4.0-5.0	AROCLOR 1254	J	1.1	1.9	PQL	ug/Kg	J (all detects)
SL-060-SA5B-SB-9.0-10	AROCLOR 1260	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.5	3.6	PQL	ug/Kg	
SL-061-SA5B-SB-3.5-4.5	AROCLOR 1260	J	0.80	1.9	PQL	ug/Kg	J (all detects)
SL-062-SA5B-SB-4.0-5.0	AROCLOR 1260	J	0.65	1.9	PQL	ug/Kg	J (all detects)
SL-062-SA5B-SB-9.0-10.0	AROCLOR 1260	J	1.5	1.8	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-055-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.39	4.0	PQL	ug/Kg	J (all detects)
SL-056-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.63	4.2	PQL	ug/Kg	J (all detects)
SL-059-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.79	4.4	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.09	4.4	PQL	ug/Kg	
SL-060-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.54	3.8	PQL	ug/Kg	J (all detects)
SL-061-SA5B-SB-3.5-4.5	METHYLENE CHLORIDE	J	0.91	4.6	PQL	ug/Kg	J (all detects)
SL-062-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.83	3.9	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.10	3.9	PQL	ug/Kg	
SL-234-SA5B-SB-2.5-3.5	METHYLENE CHLORIDE	J	0.48	4.3	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: DE055_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-055-SA5B-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	18	180	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	19	180	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-055-SA5B-SB-4.0-5.0	BENZO(A)PYRENE	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.7	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.75	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.87	1.8	PQL	ug/Kg	
	PYRENE	J	1.0	1.8	PQL	ug/Kg	
SL-055-SA5B-SB-8.5-9.5	BENZO(A)ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.74	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	20	PQL	ug/Kg	
	CHRYSENE	J	1.7	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
	PYRENE	J	1.4	1.8	PQL	ug/Kg	
SL-056-SA5B-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	20	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.81	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.97	1.8	PQL	ug/Kg	
	PYRENE	J	1.3	1.8	PQL	ug/Kg	
SL-056-SA5B-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
SL-059-SA5B-SB-4.0-5.0	BENZO(A)PYRENE	J	0.95	1.8	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	19	PQL	ug/Kg	
	FLUORANTHENE	J	0.78	1.8	PQL	ug/Kg	
	PYRENE	J	0.99	1.8	PQL	ug/Kg	
SL-059-SA5B-SB-8.5-9.5	ANTHRACENE	J	0.60	1.8	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.75	1.8	PQL	ug/Kg	
SL-060-SA5B-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.90	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.59	1.9	PQL	ug/Kg	
SL-060-SA5B-SB-9.0-10	BENZO(G,H,I)PERYLENE	J	0.97	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	19	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.8	PQL	ug/Kg	
SL-061-SA5B-SB-3.5-4.5	BENZO(A)ANTHRACENE	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.95	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.3	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.99	1.8	PQL	ug/Kg	
SL-062-SA5B-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.89	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.68	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE055

Laboratory: LL

EDD Filename: DE055_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-062-SA5B-SB-9.0-10.0	ANTHRACENE	J	0.36	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.6	20	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.92	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.78	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.8	PQL	ug/Kg	

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	ICP/MS hits - No Qual
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MSD (Al, Ba, Ca, Fe, Mg, Mn, Ti, Zn) > 4X
VII.	Duplicate Sample Analysis	N	Dup (Sb, Cd, Se, Ag, Zr) < 5X RL
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Co-14%, Cu-17% = J/US/A
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	—	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-059-SA5B-SB-4.0-5.0	11	SL-061-SA5B-SB-3.5-4.5	21		31	
2	SL-059-SA5B-SB-8.5-9.5	12	SL-234-SA5B-SB-2.5-3.5	22		32	
3	SL-060-SA5B-SB-4.0-5.0	13	(X1) MS	23		33	
4	SL-060-SA5B-SB-9.0-10.0	14	MSD	24		34	
5	SL-055-SA5B-SB-4.0-5.0	15	DUP	25		35	
6	SL-055-SA5B-SB-8.5-9.5	16	(X2) MS	26		36	
7	SL-062-SA5B-SB-4.0-5.0	17	MSD	27		37	
8	SL-062-SA5B-SB-9.0-10.0	18	DUP	28		38	
9	SL-056-SA5B-SB-4.0-5.0	19		29		39	
10	SL-056-SA5B-SB-9.0-10.0	20		30		40	

Notes: _____

SAMPLE DELIVERY GROUP

DE056

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Jan-2011	TB-011011	6181008	TB	5030B	8260B	III
10-Jan-2011	TB-011011	6181008	TB	5030B	8260B SIM	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0	6180996	N	3050B	6010B	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0	6180996	N	3050B	6020	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0	6180996	N	3060A	7199	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0	6180996	N	3550B	8082	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0	6180996	N	3550B	8270C	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0	6180996	N	3550B	8270C SIM	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0	6180996	N	5035	8260B	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0	6180996	N	5035	8260B SIM	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0	6180996	N	Gen Prep	9045M	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0	6180996	N	METHOD	300.0	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0	6180996	N	METHOD	314.0	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0	6180996	N	METHOD	7471A	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0DUP	P180996D271826A	DUP	METHOD	300.0	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0DUP	P180996D290900A	DUP	Gen Prep	9045M	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0MSD	P180996M241630A	MSD	3550B	8082	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0MSD	P180996M260153	MSD	3550B	8270C	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0MSD	P180996M261057	MSD	3550B	8270C SIM	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0MS	P180996R241612A	MS	3550B	8082	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0MS	P180996R260119	MS	3550B	8270C	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0MS	P180996R261023	MS	3550B	8270C SIM	III
10-Jan-2011	SL-107-SA5B-SB-4.0-5.0MS	P180996R271838A	MS	METHOD	300.0	III
10-Jan-2011	SL-053-SA5B-SB-1.8-2.8	6180997	N	3050B	6010B	III
10-Jan-2011	SL-053-SA5B-SB-1.8-2.8	6180997	N	3050B	6020	III
10-Jan-2011	SL-053-SA5B-SB-1.8-2.8	6180997	N	3060A	7199	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Jan-2011	SL-053-SA5B-SB-1.8-2.8	6180997	N	3550B	8082	III
10-Jan-2011	SL-053-SA5B-SB-1.8-2.8	6180997	N	3550B	8270C	III
10-Jan-2011	SL-053-SA5B-SB-1.8-2.8	6180997	N	3550B	8270C SIM	III
10-Jan-2011	SL-053-SA5B-SB-1.8-2.8	6180997	N	5035	8260B	III
10-Jan-2011	SL-053-SA5B-SB-1.8-2.8	6180997	N	5035	8260B SIM	III
10-Jan-2011	SL-053-SA5B-SB-1.8-2.8	6180997	N	Gen Prep	9045M	III
10-Jan-2011	SL-053-SA5B-SB-1.8-2.8	6180997	N	METHOD	300.0	III
10-Jan-2011	SL-053-SA5B-SB-1.8-2.8	6180997	N	METHOD	314.0	III
10-Jan-2011	SL-053-SA5B-SB-1.8-2.8	6180997	N	METHOD	7471A	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0	6180999	N	3050B	6010B	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0	6180999	N	3050B	6020	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0	6180999	N	3060A	7199	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0	6180999	N	3550B	8082	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0	6180999	N	3550B	8270C	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0	6180999	N	3550B	8270C SIM	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0	6180999	N	5035	8260B	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0	6180999	N	5035	8260B SIM	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0	6180999	N	Gen Prep	9045M	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0	6180999	N	METHOD	300.0	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0	6180999	N	METHOD	314.0	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0	6180999	N	METHOD	7471A	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0DUP	P180999D221010	DUP	METHOD	7471A	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0DUP	P180999D221309	DUP	3050B	6010B	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0DUP	P180999D222221	DUP	3050B	6010B	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0MSD	P180999M221012	MSD	METHOD	7471A	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0MSD	P180999M221317	MSD	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0MSD	P180999M222230	MSD	3050B	6010B	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0MS	P180999R221011	MS	METHOD	7471A	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0MS	P180999R221313	MS	3050B	6010B	III
10-Jan-2011	SL-110-SA5B-SB-4.0-5.0MS	P180999R222225	MS	3050B	6010B	III
10-Jan-2011	SL-054-SA5B-SB-3.0-4.0	6180998	N	3050B	6010B	III
10-Jan-2011	SL-054-SA5B-SB-3.0-4.0	6180998	N	3050B	6020	III
10-Jan-2011	SL-054-SA5B-SB-3.0-4.0	6180998	N	3060A	7199	III
10-Jan-2011	SL-054-SA5B-SB-3.0-4.0	6180998	N	3550B	8082	III
10-Jan-2011	SL-054-SA5B-SB-3.0-4.0	6180998	N	3550B	8270C	III
10-Jan-2011	SL-054-SA5B-SB-3.0-4.0	6180998	N	3550B	8270C SIM	III
10-Jan-2011	SL-054-SA5B-SB-3.0-4.0	6180998	N	5035	8260B	III
10-Jan-2011	SL-054-SA5B-SB-3.0-4.0	6180998	N	5035	8260B SIM	III
10-Jan-2011	SL-054-SA5B-SB-3.0-4.0	6180998	N	Gen Prep	9045M	III
10-Jan-2011	SL-054-SA5B-SB-3.0-4.0	6180998	N	METHOD	300.0	III
10-Jan-2011	SL-054-SA5B-SB-3.0-4.0	6180998	N	METHOD	314.0	III
10-Jan-2011	SL-054-SA5B-SB-3.0-4.0	6180998	N	METHOD	7471A	III
10-Jan-2011	SL-105-SA5B-SB-4.0-5.0	6181000	N	3050B	6010B	III
10-Jan-2011	SL-105-SA5B-SB-4.0-5.0	6181000	N	3050B	6020	III
10-Jan-2011	SL-105-SA5B-SB-4.0-5.0	6181000	N	3060A	7199	III
10-Jan-2011	SL-105-SA5B-SB-4.0-5.0	6181000	N	3550B	8082	III
10-Jan-2011	SL-105-SA5B-SB-4.0-5.0	6181000	N	3550B	8270C	III
10-Jan-2011	SL-105-SA5B-SB-4.0-5.0	6181000	N	3550B	8270C SIM	III
10-Jan-2011	SL-105-SA5B-SB-4.0-5.0	6181000	N	5035	8260B	III
10-Jan-2011	SL-105-SA5B-SB-4.0-5.0	6181000	N	5035	8260B SIM	III
10-Jan-2011	SL-105-SA5B-SB-4.0-5.0	6181000	N	Gen Prep	9045M	III
10-Jan-2011	SL-105-SA5B-SB-4.0-5.0	6181000	N	METHOD	300.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Jan-2011	SL-105-SA5B-SB-4.0-5.0	6181000	N	METHOD	314.0	III
10-Jan-2011	SL-105-SA5B-SB-4.0-5.0	6181000	N	METHOD	7471A	III
10-Jan-2011	SL-109-SA5B-SB-4.0-5.0	6181001	N	3050B	6010B	III
10-Jan-2011	SL-109-SA5B-SB-4.0-5.0	6181001	N	3050B	6020	III
10-Jan-2011	SL-109-SA5B-SB-4.0-5.0	6181001	N	3060A	7199	III
10-Jan-2011	SL-109-SA5B-SB-4.0-5.0	6181001	N	3550B	8082	III
10-Jan-2011	SL-109-SA5B-SB-4.0-5.0	6181001	N	3550B	8270C	III
10-Jan-2011	SL-109-SA5B-SB-4.0-5.0	6181001	N	3550B	8270C SIM	III
10-Jan-2011	SL-109-SA5B-SB-4.0-5.0	6181001	N	5035	8260B	III
10-Jan-2011	SL-109-SA5B-SB-4.0-5.0	6181001	N	5035	8260B SIM	III
10-Jan-2011	SL-109-SA5B-SB-4.0-5.0	6181001	N	Gen Prep	9045M	III
10-Jan-2011	SL-109-SA5B-SB-4.0-5.0	6181001	N	METHOD	300.0	III
10-Jan-2011	SL-109-SA5B-SB-4.0-5.0	6181001	N	METHOD	314.0	III
10-Jan-2011	SL-109-SA5B-SB-4.0-5.0	6181001	N	METHOD	6850	III
10-Jan-2011	SL-109-SA5B-SB-4.0-5.0	6181001	N	METHOD	7471A	III
10-Jan-2011	SL-106-SA5B-SB-4.0-5.0	6181004	N	3050B	6010B	III
10-Jan-2011	SL-106-SA5B-SB-4.0-5.0	6181004	N	3050B	6020	III
10-Jan-2011	SL-106-SA5B-SB-4.0-5.0	6181004	N	3060A	7199	III
10-Jan-2011	SL-106-SA5B-SB-4.0-5.0	6181004	N	3550B	8082	III
10-Jan-2011	SL-106-SA5B-SB-4.0-5.0	6181004	N	3550B	8270C	III
10-Jan-2011	SL-106-SA5B-SB-4.0-5.0	6181004	N	3550B	8270C SIM	III
10-Jan-2011	SL-106-SA5B-SB-4.0-5.0	6181004	N	5035	8260B	III
10-Jan-2011	SL-106-SA5B-SB-4.0-5.0	6181004	N	5035	8260B SIM	III
10-Jan-2011	SL-106-SA5B-SB-4.0-5.0	6181004	N	Gen Prep	9045M	III
10-Jan-2011	SL-106-SA5B-SB-4.0-5.0	6181004	N	METHOD	300.0	III
10-Jan-2011	SL-106-SA5B-SB-4.0-5.0	6181004	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Jan-2011	SL-106-SA5B-SB-4.0-5.0	6181004	N	METHOD	7471A	III
10-Jan-2011	SL-108-SA5B-SB-4.0-5.0	6181005	N	3050B	6010B	III
10-Jan-2011	SL-108-SA5B-SB-4.0-5.0	6181005	N	3050B	6020	III
10-Jan-2011	SL-108-SA5B-SB-4.0-5.0	6181005	N	3060A	7199	III
10-Jan-2011	SL-108-SA5B-SB-4.0-5.0	6181005	N	3550B	8082	III
10-Jan-2011	SL-108-SA5B-SB-4.0-5.0	6181005	N	3550B	8270C	III
10-Jan-2011	SL-108-SA5B-SB-4.0-5.0	6181005	N	3550B	8270C SIM	III
10-Jan-2011	SL-108-SA5B-SB-4.0-5.0	6181005	N	5035	8260B	III
10-Jan-2011	SL-108-SA5B-SB-4.0-5.0	6181005	N	5035	8260B SIM	III
10-Jan-2011	SL-108-SA5B-SB-4.0-5.0	6181005	N	Gen Prep	9045M	III
10-Jan-2011	SL-108-SA5B-SB-4.0-5.0	6181005	N	METHOD	300.0	III
10-Jan-2011	SL-108-SA5B-SB-4.0-5.0	6181005	N	METHOD	314.0	III
10-Jan-2011	SL-108-SA5B-SB-4.0-5.0	6181005	N	METHOD	7471A	III
10-Jan-2011	SL-108-SA5B-SB-4.0-5.0DUP	P181005D270005B	DUP	METHOD	314.0	III
10-Jan-2011	SL-108-SA5B-SB-4.0-5.0MS	P181005R270028B	MS	METHOD	314.0	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0	6181002	N	3050B	6010B	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0	6181002	N	3050B	6020	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0	6181002	N	3060A	7199	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0	6181002	N	3550B	8082	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0	6181002	N	3550B	8270C	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0	6181002	N	3550B	8270C SIM	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0	6181002	N	5035	8260B	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0	6181002	N	5035	8260B SIM	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0	6181002	N	Gen Prep	9045M	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0	6181002	N	METHOD	300.0	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0	6181002	N	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0	6181002	N	METHOD	7471A	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0DUP	P181002D221122A	DUP	3050B	6020	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0DUP	P181002D221122B	DUP	3050B	6020	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0DUP	P181002D221122C	DUP	3050B	6020	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0DUP	P181002D221122D	DUP	3050B	6020	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0DUP	P181002D221125A	DUP	3050B	6020	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0DUP	P181002D222123A	DUP	3050B	6020	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0MSD	P181002M221025A	MSD	3050B	6020	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0MSD	P181002M221025B	MSD	3050B	6020	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0MSD	P181002M221025C	MSD	3050B	6020	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0MSD	P181002M221025D	MSD	3050B	6020	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0MS	P181002R221022A	MS	3050B	6020	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0MS	P181002R221022B	MS	3050B	6020	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0MS	P181002R221022C	MS	3050B	6020	III
10-Jan-2011	SL-240-SA5B-SB-4.0-5.0MS	P181002R221022D	MS	3050B	6020	III
10-Jan-2011	SL-240-SA5B-SB-9.0-10.0	6181003	N	3050B	6010B	III
10-Jan-2011	SL-240-SA5B-SB-9.0-10.0	6181003	N	3050B	6020	III
10-Jan-2011	SL-240-SA5B-SB-9.0-10.0	6181003	N	3060A	7199	III
10-Jan-2011	SL-240-SA5B-SB-9.0-10.0	6181003	N	3550B	8082	III
10-Jan-2011	SL-240-SA5B-SB-9.0-10.0	6181003	N	3550B	8270C	III
10-Jan-2011	SL-240-SA5B-SB-9.0-10.0	6181003	N	3550B	8270C SIM	III
10-Jan-2011	SL-240-SA5B-SB-9.0-10.0	6181003	N	Gen Prep	9045M	III
10-Jan-2011	SL-240-SA5B-SB-9.0-10.0	6181003	N	METHOD	300.0	III
10-Jan-2011	SL-240-SA5B-SB-9.0-10.0	6181003	N	METHOD	314.0	III
10-Jan-2011	SL-240-SA5B-SB-9.0-10.0	6181003	N	METHOD	7471A	III
10-Jan-2011	SL-111-SA5B-SB-4.0-5.0	6181006	N	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Jan-2011	SL-111-SA5B-SB-4.0-5.0	6181006	N	3050B	6020	III
10-Jan-2011	SL-111-SA5B-SB-4.0-5.0	6181006	N	3060A	7199	III
10-Jan-2011	SL-111-SA5B-SB-4.0-5.0	6181006	N	3550B	8082	III
10-Jan-2011	SL-111-SA5B-SB-4.0-5.0	6181006	N	3550B	8270C	III
10-Jan-2011	SL-111-SA5B-SB-4.0-5.0	6181006	N	3550B	8270C SIM	III
10-Jan-2011	SL-111-SA5B-SB-4.0-5.0	6181006	N	5035	8260B	III
10-Jan-2011	SL-111-SA5B-SB-4.0-5.0	6181006	N	5035	8260B SIM	III
10-Jan-2011	SL-111-SA5B-SB-4.0-5.0	6181006	N	Gen Prep	9045M	III
10-Jan-2011	SL-111-SA5B-SB-4.0-5.0	6181006	N	METHOD	300.0	III
10-Jan-2011	SL-111-SA5B-SB-4.0-5.0	6181006	N	METHOD	314.0	III
10-Jan-2011	SL-111-SA5B-SB-4.0-5.0	6181006	N	METHOD	7471A	III
10-Jan-2011	SL-111-SA5B-SB-4.0-5.0DUP	P181006D270019B	DUP	METHOD	300.0	III
10-Jan-2011	SL-111-SA5B-SB-4.0-5.0MS	P181006R270032B	MS	METHOD	300.0	III
10-Jan-2011	SL-111-SA5B-SB-9.0-10	6181007	N	3050B	6010B	III
10-Jan-2011	SL-111-SA5B-SB-9.0-10	6181007	N	3050B	6020	III
10-Jan-2011	SL-111-SA5B-SB-9.0-10	6181007	N	3060A	7199	III
10-Jan-2011	SL-111-SA5B-SB-9.0-10	6181007	N	3550B	8082	III
10-Jan-2011	SL-111-SA5B-SB-9.0-10	6181007	N	3550B	8270C	III
10-Jan-2011	SL-111-SA5B-SB-9.0-10	6181007	N	3550B	8270C SIM	III
10-Jan-2011	SL-111-SA5B-SB-9.0-10	6181007	N	Gen Prep	9045M	III
10-Jan-2011	SL-111-SA5B-SB-9.0-10	6181007	N	METHOD	300.0	III
10-Jan-2011	SL-111-SA5B-SB-9.0-10	6181007	N	METHOD	314.0	III
10-Jan-2011	SL-111-SA5B-SB-9.0-10	6181007	N	METHOD	7471A	III
10-Jan-2011	SL-111-SA5B-SB-9.0-10DUP	P181007D271345A	DUP	3060A	7199	III
10-Jan-2011	SL-111-SA5B-SB-9.0-10DUP	P181007D290900B	DUP	Gen Prep	9045M	III
10-Jan-2011	SL-111-SA5B-SB-9.0-10MS	P181007R271314A	MS	3060A	7199	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM
Method:	300.0
Matrix:	SO

Sample ID: SL-053-SA5B-SB-1.8-2.8			Collected: 1/10/2011 9:57:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1	J	0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-054-SA5B-SB-3.0-4.0			Collected: 1/10/2011 10:54:00		Analysis Type: RES			Dilution: 1		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.92	U	0.92	MDL	1.2	PQL	mg/Kg	UJ	Q	

Sample ID: SL-105-SA5B-SB-4.0-5.0			Collected: 1/10/2011 11:39:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.7		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-106-SA5B-SB-4.0-5.0			Collected: 1/10/2011 1:56:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-107-SA5B-SB-4.0-5.0			Collected: 1/10/2011 9:39:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-108-SA5B-SB-4.0-5.0			Collected: 1/10/2011 2:53:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.2		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-109-SA5B-SB-4.0-5.0			Collected: 1/10/2011 1:52:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-110-SA5B-SB-4.0-5.0			Collected: 1/10/2011 10:28:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.85	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-240-SA5B-SB-4.0-5.0

Collected: 1/10/2011 3:11:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.1		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-240-SA5B-SB-9.0-10.0

Collected: 1/10/2011 3:14:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-053-SA5B-SB-1.8-2.8

Collected: 1/10/2011 9:57:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.96	J	0.980	MDL	5.51	PQL	mg/Kg	J	Z

Sample ID: SL-053-SA5B-SB-1.8-2.8

Collected: 1/10/2011 9:57:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	14300		5.54	MDL	22.0	PQL	mg/Kg	J	A
LITHIUM	21.1		0.24	MDL	2.2	PQL	mg/Kg	J	A
MANGANESE	263		0.0859	MDL	0.551	PQL	mg/Kg	J	E, A
POTASSIUM	3090		19.8	MDL	55.1	PQL	mg/Kg	J	Q
STRONTIUM	104		0.0683	MDL	0.551	PQL	mg/Kg	J	A
TIN	2.47	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
TITANIUM	1150		0.419	MDL	1.10	PQL	mg/Kg	J	A

Sample ID: SL-054-SA5B-SB-3.0-4.0

Collected: 1/10/2011 10:54:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.99	J	1.03	MDL	5.76	PQL	mg/Kg	J	Z

Sample ID: SL-054-SA5B-SB-3.0-4.0

Collected: 1/10/2011 10:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	19400		5.79	MDL	23.0	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-054-SA5B-SB-3.0-4.0

Collected: 1/10/2011 10:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LITHIUM	22.8		0.25	MDL	2.3	PQL	mg/Kg	J	A
MANGANESE	331		0.0899	MDL	0.576	PQL	mg/Kg	J	E, A
POTASSIUM	3070		20.7	MDL	57.6	PQL	mg/Kg	J	Q
STRONTIUM	39.8		0.0714	MDL	0.576	PQL	mg/Kg	J	A
TIN	2.40	J	1.15	MDL	11.5	PQL	mg/Kg	U	B
TITANIUM	1300		0.438	MDL	1.15	PQL	mg/Kg	J	A
Zirconium	4.15	J	0.968	MDL	5.76	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA5B-SB-4.0-5.0

Collected: 1/10/2011 11:39:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.10	J	0.981	MDL	5.51	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA5B-SB-4.0-5.0

Collected: 1/10/2011 11:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	28500		5.55	MDL	22.1	PQL	mg/Kg	J	A
LITHIUM	33.7		0.24	MDL	2.2	PQL	mg/Kg	J	A
MANGANESE	225		0.0860	MDL	0.551	PQL	mg/Kg	J	E, A
POTASSIUM	1620		19.9	MDL	55.1	PQL	mg/Kg	J	Q
STRONTIUM	27.4		0.0684	MDL	0.551	PQL	mg/Kg	J	A
TIN	2.67	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
TITANIUM	1360		0.419	MDL	1.10	PQL	mg/Kg	J	A
Zirconium	3.19	J	0.926	MDL	5.51	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:56:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	19000		5.25	MDL	20.9	PQL	mg/Kg	J	A
LITHIUM	33.8		0.23	MDL	2.1	PQL	mg/Kg	J	A
MANGANESE	311		0.0814	MDL	0.522	PQL	mg/Kg	J	E, A
POTASSIUM	1910		18.8	MDL	52.2	PQL	mg/Kg	J	Q
STRONTIUM	18.9		0.0647	MDL	0.522	PQL	mg/Kg	J	A
TIN	2.36	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
TITANIUM	1250		0.397	MDL	1.04	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-106-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:56:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.79	J	0.877	MDL	5.22	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA5B-SB-4.0-5.0

Collected: 1/10/2011 9:39:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.75	J	1.00	MDL	5.64	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA5B-SB-4.0-5.0

Collected: 1/10/2011 9:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	27900		5.67	MDL	22.6	PQL	mg/Kg	J	A
LITHIUM	32.2		0.25	MDL	2.3	PQL	mg/Kg	J	A
MANGANESE	275		0.0880	MDL	0.564	PQL	mg/Kg	J	E, A
POTASSIUM	2020		20.3	MDL	56.4	PQL	mg/Kg	J	Q
STRONTIUM	26.7		0.0699	MDL	0.564	PQL	mg/Kg	J	A
TIN	2.74	J	1.13	MDL	11.3	PQL	mg/Kg	U	B
TITANIUM	1430		0.429	MDL	1.13	PQL	mg/Kg	J	A
Zirconium	3.52	J	0.948	MDL	5.64	PQL	mg/Kg	J	Z

Sample ID: SL-108-SA5B-SB-4.0-5.0

Collected: 1/10/2011 2:53:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.14	J	0.962	MDL	5.40	PQL	mg/Kg	J	Z

Sample ID: SL-108-SA5B-SB-4.0-5.0

Collected: 1/10/2011 2:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	24100		5.44	MDL	21.6	PQL	mg/Kg	J	A
LITHIUM	30.0		0.24	MDL	2.2	PQL	mg/Kg	J	A
MANGANESE	224		0.0843	MDL	0.540	PQL	mg/Kg	J	E, A
POTASSIUM	1620		19.5	MDL	54.0	PQL	mg/Kg	J	Q
STRONTIUM	21.8		0.0670	MDL	0.540	PQL	mg/Kg	J	A
TIN	2.32	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
TITANIUM	1300		0.411	MDL	1.08	PQL	mg/Kg	J	A
Zirconium	3.43	J	0.908	MDL	5.40	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-109-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	23500		5.51	MDL	21.9	PQL	mg/Kg	J	A
LITHIUM	32.0		0.24	MDL	2.2	PQL	mg/Kg	J	A
MANGANESE	355		0.0854	MDL	0.547	PQL	mg/Kg	J	E, A
POTASSIUM	1920		19.7	MDL	54.7	PQL	mg/Kg	J	Q
STRONTIUM	24.1		0.0679	MDL	0.547	PQL	mg/Kg	J	A
TIN	2.62	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
TITANIUM	1340		0.416	MDL	1.09	PQL	mg/Kg	J	A
Zirconium	3.61	J	0.919	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA5B-SB-4.0-5.0

Collected: 1/10/2011 10:28:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.35	J	0.947	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA5B-SB-4.0-5.0

Collected: 1/10/2011 10:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	19400		5.35	MDL	21.3	PQL	mg/Kg	J	A
LITHIUM	27.1		0.23	MDL	2.1	PQL	mg/Kg	J	A
MANGANESE	334		0.0830	MDL	0.532	PQL	mg/Kg	J	E, A
POTASSIUM	1810		19.1	MDL	53.2	PQL	mg/Kg	J	Q
STRONTIUM	20.9		0.0660	MDL	0.532	PQL	mg/Kg	J	A
TIN	2.44	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
TITANIUM	1270		0.404	MDL	1.06	PQL	mg/Kg	J	A
Zirconium	3.10	J	0.894	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-111-SA5B-SB-4.0-5.0

Collected: 1/10/2011 4:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	16000		5.67	MDL	22.5	PQL	mg/Kg	J	A
LITHIUM	27.6		0.25	MDL	2.3	PQL	mg/Kg	J	A
MANGANESE	323		0.0879	MDL	0.564	PQL	mg/Kg	J	E, A
POTASSIUM	2630		20.3	MDL	56.4	PQL	mg/Kg	J	Q
STRONTIUM	27.8		0.0699	MDL	0.564	PQL	mg/Kg	J	A
TIN	2.52	J	1.13	MDL	11.3	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-111-SA5B-SB-4.0-5.0

Collected: 1/10/2011 4:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1250		0.428	MDL	1.13	PQL	mg/Kg	J	A
Zirconium	2.86	J	0.947	MDL	5.64	PQL	mg/Kg	J	Z

Sample ID: SL-111-SA5B-SB-9.0-10

Collected: 1/10/2011 4:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15900		5.55	MDL	22.1	PQL	mg/Kg	J	A
LITHIUM	23.3		0.24	MDL	2.2	PQL	mg/Kg	J	A
MANGANESE	233		0.0861	MDL	0.552	PQL	mg/Kg	J	E, A
POTASSIUM	2000		19.9	MDL	55.2	PQL	mg/Kg	J	Q
STRONTIUM	22.3		0.0684	MDL	0.552	PQL	mg/Kg	J	A
TIN	2.29	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
TITANIUM	1130		0.419	MDL	1.10	PQL	mg/Kg	J	A
Zirconium	2.89	J	0.927	MDL	5.52	PQL	mg/Kg	J	Z

Sample ID: SL-240-SA5B-SB-4.0-5.0

Collected: 1/10/2011 3:11:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.26	J	0.999	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SL-240-SA5B-SB-4.0-5.0

Collected: 1/10/2011 3:11:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	17300		5.65	MDL	22.5	PQL	mg/Kg	J	A
LITHIUM	23.0		0.25	MDL	2.2	PQL	mg/Kg	J	A
MANGANESE	310		0.0876	MDL	0.562	PQL	mg/Kg	J	E, A
POTASSIUM	3150		20.2	MDL	56.2	PQL	mg/Kg	J	Q
STRONTIUM	23.1		0.0696	MDL	0.562	PQL	mg/Kg	J	A
TIN	2.38	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
TITANIUM	1320		0.427	MDL	1.12	PQL	mg/Kg	J	A
Zirconium	2.97	J	0.943	MDL	5.62	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-240-SA5B-SB-9.0-10.0

Collected: 1/10/2011 3:14:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13500		5.39	MDL	21.4	PQL	mg/Kg	J	A
LITHIUM	24.1		0.24	MDL	2.1	PQL	mg/Kg	J	A
MANGANESE	378		0.0836	MDL	0.536	PQL	mg/Kg	J	E, A
POTASSIUM	1780		19.3	MDL	53.6	PQL	mg/Kg	J	Q
STRONTIUM	19.5		0.0664	MDL	0.536	PQL	mg/Kg	J	A
TIN	2.55	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
TITANIUM	1210		0.407	MDL	1.07	PQL	mg/Kg	J	A
Zirconium	2.33	J	0.900	MDL	5.36	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-053-SA5B-SB-1.8-2.8

Collected: 1/10/2011 9:57:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.140		0.0432	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-053-SA5B-SB-1.8-2.8

Collected: 1/10/2011 9:57:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0802	J	0.0432	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-053-SA5B-SB-1.8-2.8

Collected: 1/10/2011 9:57:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.887		0.0540	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-053-SA5B-SB-1.8-2.8

Collected: 1/10/2011 9:57:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	131		0.117	MDL	0.432	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-053-SA5B-SB-1.8-2.8

Collected: 1/10/2011 9:57:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.158	J	0.0648	MDL	0.216	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	5.60		0.0864	MDL	0.432	PQL	mg/Kg	J	Q, E, E
CHROMIUM	23.4		0.130	MDL	0.432	PQL	mg/Kg	J	Q, E, A
COBALT	6.48		0.0216	MDL	0.108	PQL	mg/Kg	J	E, A
COPPER	13.7		0.0713	MDL	0.432	PQL	mg/Kg	J	Q, A
LEAD	5.43		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, E, A
NICKEL	12.0		0.108	MDL	0.432	PQL	mg/Kg	J	A
SILVER	0.0545	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.276		0.0324	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	44.5		0.0238	MDL	0.108	PQL	mg/Kg	J	Q, A
ZINC	102		0.605	MDL	3.24	PQL	mg/Kg	J	E

Sample ID: SL-054-SA5B-SB-3.0-4.0

Collected: 1/10/2011 10:54:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.118		0.0447	MDL	0.112	PQL	mg/Kg	J	Q, E

Sample ID: SL-054-SA5B-SB-3.0-4.0

Collected: 1/10/2011 10:54:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0447	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-054-SA5B-SB-3.0-4.0

Collected: 1/10/2011 10:54:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.819		0.0559	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-054-SA5B-SB-3.0-4.0

Collected: 1/10/2011 10:54:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	134		0.121	MDL	0.447	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-054-SA5B-SB-3.0-4.0

Collected: 1/10/2011 10:54:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.150	J	0.0671	MDL	0.224	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	6.21		0.0895	MDL	0.447	PQL	mg/Kg	J	Q, E, E
CHROMIUM	24.8		0.134	MDL	0.447	PQL	mg/Kg	J	Q, E, A
COBALT	7.22		0.0224	MDL	0.112	PQL	mg/Kg	J	E, A
COPPER	12.1		0.0738	MDL	0.447	PQL	mg/Kg	J	Q, A
LEAD	6.35		0.0116	MDL	0.224	PQL	mg/Kg	J	Q, E, A
NICKEL	14.3		0.112	MDL	0.447	PQL	mg/Kg	J	A
SILVER	0.0518	J	0.0134	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.330		0.0336	MDL	0.112	PQL	mg/Kg	J	Q
VANADIUM	51.6		0.0246	MDL	0.112	PQL	mg/Kg	J	Q, A
ZINC	62.6		0.626	MDL	3.36	PQL	mg/Kg	J	E

Sample ID: SL-105-SA5B-SB-4.0-5.0

Collected: 1/10/2011 11:39:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0856	J	0.0445	MDL	0.111	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-105-SA5B-SB-4.0-5.0

Collected: 1/10/2011 11:39:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.158	J	0.0445	MDL	0.445	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA5B-SB-4.0-5.0

Collected: 1/10/2011 11:39:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.903		0.0557	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-105-SA5B-SB-4.0-5.0

Collected: 1/10/2011 11:39:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	136		0.120	MDL	0.445	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-105-SA5B-SB-4.0-5.0

Collected: 1/10/2011 11:39:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.357		0.0668	MDL	0.223	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	10.7		0.0891	MDL	0.445	PQL	mg/Kg	J	Q, E, E
CHROMIUM	35.1		0.134	MDL	0.445	PQL	mg/Kg	J	Q, E, A
COBALT	10.7		0.0223	MDL	0.111	PQL	mg/Kg	J	E, A
COPPER	11.6		0.0735	MDL	0.445	PQL	mg/Kg	J	Q, A
LEAD	11.0		0.0116	MDL	0.223	PQL	mg/Kg	J	Q, E, A
NICKEL	18.0		0.111	MDL	0.445	PQL	mg/Kg	J	A
SILVER	0.0840	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.358		0.0334	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	66.9		0.0245	MDL	0.111	PQL	mg/Kg	J	Q, A
ZINC	74.8		0.624	MDL	3.34	PQL	mg/Kg	J	E

Sample ID: SL-106-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:56:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0494	J	0.0410	MDL	0.102	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-106-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:56:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.118	J	0.0410	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:56:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.644		0.0512	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-106-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:56:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	102		0.111	MDL	0.410	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-106-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:56:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.151	J	0.0614	MDL	0.205	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	7.31		0.0819	MDL	0.410	PQL	mg/Kg	J	Q, E, E
CHROMIUM	22.4		0.123	MDL	0.410	PQL	mg/Kg	J	Q, E, A
COBALT	8.93		0.0205	MDL	0.102	PQL	mg/Kg	J	E, A
COPPER	8.97		0.0676	MDL	0.410	PQL	mg/Kg	J	Q, A
LEAD	6.46		0.0107	MDL	0.205	PQL	mg/Kg	J	Q, E, A
NICKEL	13.6		0.102	MDL	0.410	PQL	mg/Kg	J	A
SILVER	0.0240	J	0.0123	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.337		0.0307	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	44.5		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, A
ZINC	59.3		0.573	MDL	3.07	PQL	mg/Kg	J	E

Sample ID: SL-107-SA5B-SB-4.0-5.0

Collected: 1/10/2011 9:39:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0613	J	0.0460	MDL	0.115	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-107-SA5B-SB-4.0-5.0

Collected: 1/10/2011 9:39:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0617	J	0.0460	MDL	0.460	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA5B-SB-4.0-5.0

Collected: 1/10/2011 9:39:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.706		0.0575	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-107-SA5B-SB-4.0-5.0

Collected: 1/10/2011 9:39:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	123		0.124	MDL	0.460	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-107-SA5B-SB-4.0-5.0

Collected: 1/10/2011 9:39:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.154	J	0.0690	MDL	0.230	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	6.44		0.0921	MDL	0.460	PQL	mg/Kg	J	Q, E, E
CHROMIUM	25.3		0.138	MDL	0.460	PQL	mg/Kg	J	Q, E, A
COBALT	5.92		0.0230	MDL	0.115	PQL	mg/Kg	J	E, A
COPPER	8.40		0.0759	MDL	0.460	PQL	mg/Kg	J	Q, A
LEAD	7.03		0.0120	MDL	0.230	PQL	mg/Kg	J	Q, E, A
NICKEL	13.2		0.115	MDL	0.460	PQL	mg/Kg	J	A
SILVER	0.0643	J	0.0138	MDL	0.115	PQL	mg/Kg	J	Z, Q
THALLIUM	0.308		0.0345	MDL	0.115	PQL	mg/Kg	J	Q
VANADIUM	48.0		0.0253	MDL	0.115	PQL	mg/Kg	J	Q, A
ZINC	55.3		0.644	MDL	3.45	PQL	mg/Kg	J	E

Sample ID: SL-108-SA5B-SB-4.0-5.0

Collected: 1/10/2011 2:53:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0640	J	0.0420	MDL	0.105	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-108-SA5B-SB-4.0-5.0

Collected: 1/10/2011 2:53:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0797	J	0.0420	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-108-SA5B-SB-4.0-5.0

Collected: 1/10/2011 2:53:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.581		0.0525	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-108-SA5B-SB-4.0-5.0

Collected: 1/10/2011 2:53:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	106		0.113	MDL	0.420	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-108-SA5B-SB-4.0-5.0

Collected: 1/10/2011 2:53:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0641	J	0.0630	MDL	0.210	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	7.27		0.0840	MDL	0.420	PQL	mg/Kg	J	Q, E, E
CHROMIUM	25.3		0.126	MDL	0.420	PQL	mg/Kg	J	Q, E, A
COBALT	5.82		0.0210	MDL	0.105	PQL	mg/Kg	J	E, A
COPPER	7.04		0.0693	MDL	0.420	PQL	mg/Kg	J	Q, A
LEAD	7.92		0.0109	MDL	0.210	PQL	mg/Kg	J	Q, E, A
NICKEL	13.2		0.105	MDL	0.420	PQL	mg/Kg	J	A
SILVER	0.0760	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.284		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	51.0		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, A
ZINC	51.8		0.588	MDL	3.15	PQL	mg/Kg	J	E

Sample ID: SL-109-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:52:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0651	J	0.0438	MDL	0.109	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-109-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:52:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-109-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:52:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.681		0.0547	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-109-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:52:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	125		0.118	MDL	0.438	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-109-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:52:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.169	J	0.0657	MDL	0.219	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	6.43		0.0876	MDL	0.438	PQL	mg/Kg	J	Q, E, E
CHROMIUM	23.9		0.131	MDL	0.438	PQL	mg/Kg	J	Q, E, A
COBALT	8.12		0.0219	MDL	0.109	PQL	mg/Kg	J	E, A
COPPER	7.80		0.0722	MDL	0.438	PQL	mg/Kg	J	Q, A
LEAD	6.80		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, E, A
NICKEL	14.0		0.109	MDL	0.438	PQL	mg/Kg	J	A
SILVER	0.0362	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.261		0.0328	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	49.2		0.0241	MDL	0.109	PQL	mg/Kg	J	Q, A
ZINC	59.8		0.613	MDL	3.28	PQL	mg/Kg	J	E

Sample ID: SL-110-SA5B-SB-4.0-5.0

Collected: 1/10/2011 10:28:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.103	J	0.0417	MDL	0.104	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-110-SA5B-SB-4.0-5.0

Collected: 1/10/2011 10:28:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0628	J	0.0417	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA5B-SB-4.0-5.0

Collected: 1/10/2011 10:28:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.798		0.0521	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-110-SA5B-SB-4.0-5.0

Collected: 1/10/2011 10:28:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	170		0.113	MDL	0.417	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-110-SA5B-SB-4.0-5.0

Collected: 1/10/2011 10:28:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.143	J	0.0626	MDL	0.209	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	8.35		0.0834	MDL	0.417	PQL	mg/Kg	J	Q, E, E
CHROMIUM	33.9		0.125	MDL	0.417	PQL	mg/Kg	J	Q, E, A
COBALT	7.38		0.0209	MDL	0.104	PQL	mg/Kg	J	E, A
COPPER	12.0		0.0688	MDL	0.417	PQL	mg/Kg	J	Q, A
LEAD	8.95		0.0108	MDL	0.209	PQL	mg/Kg	J	Q, E, A
NICKEL	19.1		0.104	MDL	0.417	PQL	mg/Kg	J	A
SILVER	0.0679	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.358		0.0313	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	62.1		0.0229	MDL	0.104	PQL	mg/Kg	J	Q, A
ZINC	78.1		0.584	MDL	3.13	PQL	mg/Kg	J	E

Sample ID: SL-111-SA5B-SB-4.0-5.0

Collected: 1/10/2011 4:04:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.171		0.0442	MDL	0.111	PQL	mg/Kg	J	Q, E

Sample ID: SL-111-SA5B-SB-4.0-5.0

Collected: 1/10/2011 4:04:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.0442	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-111-SA5B-SB-4.0-5.0

Collected: 1/10/2011 4:04:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.951		0.0553	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-111-SA5B-SB-4.0-5.0

Collected: 1/10/2011 4:04:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	175		0.119	MDL	0.442	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-111-SA5B-SB-4.0-5.0

Collected: 1/10/2011 4:04:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.217	J	0.0663	MDL	0.221	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	8.40		0.0884	MDL	0.442	PQL	mg/Kg	J	Q, E, E
CHROMIUM	32.3		0.133	MDL	0.442	PQL	mg/Kg	J	Q, E, A
COBALT	9.35		0.0221	MDL	0.111	PQL	mg/Kg	J	E, A
COPPER	17.1		0.0729	MDL	0.442	PQL	mg/Kg	J	Q, A
LEAD	9.15		0.0115	MDL	0.221	PQL	mg/Kg	J	Q, E, A
NICKEL	20.2		0.111	MDL	0.442	PQL	mg/Kg	J	A
SILVER	0.0606	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.424		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	57.9		0.0243	MDL	0.111	PQL	mg/Kg	J	Q, A
ZINC	103		0.619	MDL	3.32	PQL	mg/Kg	J	E

Sample ID: SL-111-SA5B-SB-9.0-10

Collected: 1/10/2011 4:08:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.106	J	0.0450	MDL	0.113	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.232		0.0338	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-111-SA5B-SB-9.0-10

Collected: 1/10/2011 4:08:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0804	J	0.0450	MDL	0.450	PQL	mg/Kg	J	Z

Sample ID: SL-111-SA5B-SB-9.0-10

Collected: 1/10/2011 4:08:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.670		0.0563	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-111-SA5B-SB-9.0-10

Collected: 1/10/2011 4:08:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	126		0.122	MDL	0.450	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-111-SA5B-SB-9.0-10

Collected: 1/10/2011 4:08:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.181	J	0.0675	MDL	0.225	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	8.34		0.0900	MDL	0.450	PQL	mg/Kg	J	Q, E, E
CHROMIUM	31.6		0.135	MDL	0.450	PQL	mg/Kg	J	Q, E, A
COBALT	7.61		0.0225	MDL	0.113	PQL	mg/Kg	J	E, A
COPPER	12.2		0.0743	MDL	0.450	PQL	mg/Kg	J	Q, A
LEAD	7.14		0.0117	MDL	0.225	PQL	mg/Kg	J	Q, E, A
NICKEL	18.3		0.113	MDL	0.450	PQL	mg/Kg	J	A
SILVER	0.0327	J	0.0135	MDL	0.113	PQL	mg/Kg	J	Z, Q
VANADIUM	52.6		0.0248	MDL	0.113	PQL	mg/Kg	J	Q, A
ZINC	77.9		0.630	MDL	3.38	PQL	mg/Kg	J	E

Sample ID: SL-240-SA5B-SB-4.0-5.0

Collected: 1/10/2011 3:11:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.184		0.0445	MDL	0.111	PQL	mg/Kg	J	Q, E

Sample ID: SL-240-SA5B-SB-4.0-5.0

Collected: 1/10/2011 3:11:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0445	MDL	0.445	PQL	mg/Kg	J	Z

Sample ID: SL-240-SA5B-SB-4.0-5.0

Collected: 1/10/2011 3:11:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.896		0.0556	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-240-SA5B-SB-4.0-5.0

Collected: 1/10/2011 3:11:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	134		0.120	MDL	0.445	PQL	mg/Kg	J	E

Sample ID: SL-240-SA5B-SB-4.0-5.0

Collected: 1/10/2011 3:11:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.280		0.0667	MDL	0.222	PQL	mg/Kg	UJ	Q, E, B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-240-SA5B-SB-4.0-5.0

Collected: 1/10/2011 3:11:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	4.58		0.0890	MDL	0.445	PQL	mg/Kg	J	Q, E, E
CHROMIUM	21.6		0.133	MDL	0.445	PQL	mg/Kg	J	Q, E, A
COBALT	8.48		0.0222	MDL	0.111	PQL	mg/Kg	J	E, A
COPPER	10.6		0.0734	MDL	0.445	PQL	mg/Kg	J	Q, A
LEAD	6.52		0.0116	MDL	0.222	PQL	mg/Kg	J	Q, E, A
NICKEL	15.2		0.111	MDL	0.445	PQL	mg/Kg	J	A
SILVER	0.0423	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.292		0.0334	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	41.2		0.0245	MDL	0.111	PQL	mg/Kg	J	Q, A
ZINC	67.9		0.623	MDL	3.34	PQL	mg/Kg	J	E

Sample ID: SL-240-SA5B-SB-9.0-10.0

Collected: 1/10/2011 3:14:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0883	J	0.0442	MDL	0.110	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-240-SA5B-SB-9.0-10.0

Collected: 1/10/2011 3:14:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0708	J	0.0442	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-240-SA5B-SB-9.0-10.0

Collected: 1/10/2011 3:14:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.910		0.0552	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-240-SA5B-SB-9.0-10.0

Collected: 1/10/2011 3:14:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	87.0		0.119	MDL	0.442	PQL	mg/Kg	J	E

Sample ID: SL-240-SA5B-SB-9.0-10.0

Collected: 1/10/2011 3:14:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0743	J	0.0662	MDL	0.221	PQL	mg/Kg	UJ	Q, E, B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-240-SA5B-SB-9.0-10.0

Collected: 1/10/2011 3:14:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.45		0.0883	MDL	0.442	PQL	mg/Kg	J	Q, E, E
CHROMIUM	25.9		0.132	MDL	0.442	PQL	mg/Kg	J	Q, E, A
COBALT	9.55		0.0221	MDL	0.110	PQL	mg/Kg	J	E, A
COPPER	9.78		0.0728	MDL	0.442	PQL	mg/Kg	J	Q, A
LEAD	6.38		0.0115	MDL	0.221	PQL	mg/Kg	J	Q, E, A
NICKEL	16.9		0.110	MDL	0.442	PQL	mg/Kg	J	A
SILVER	0.0133	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.304		0.0331	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	42.7		0.0243	MDL	0.110	PQL	mg/Kg	J	Q, A
ZINC	75.1		0.618	MDL	3.31	PQL	mg/Kg	J	E

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-054-SA5B-SB-3.0-4.0

Collected: 1/10/2011 10:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.68	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:56:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA5B-SB-4.0-5.0

Collected: 1/10/2011 9:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-108-SA5B-SB-4.0-5.0

Collected: 1/10/2011 2:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-109-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA5B-SB-4.0-5.0

Collected: 1/10/2011 10:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-111-SA5B-SB-4.0-5.0

Collected: 1/10/2011 4:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-111-SA5B-SB-9.0-10

Collected: 1/10/2011 4:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-240-SA5B-SB-4.0-5.0

Collected: 1/10/2011 3:11:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-053-SA5B-SB-1.8-2.8

Collected: 1/10/2011 9:57:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0168	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-054-SA5B-SB-3.0-4.0

Collected: 1/10/2011 10:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0116	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-105-SA5B-SB-4.0-5.0

Collected: 1/10/2011 11:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0083	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-108-SA5B-SB-4.0-5.0

Collected: 1/10/2011 2:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0078	J	0.0031	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA5B-SB-4.0-5.0

Collected: 1/10/2011 10:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0193	J	0.0030	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-111-SA5B-SB-9.0-10

Collected: 1/10/2011 4:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0068	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-240-SA5B-SB-4.0-5.0

Collected: 1/10/2011 3:11:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0272	J	0.0031	MDL	0.109	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-053-SA5B-SB-1.8-2.8

Collected: 1/10/2011 9:57:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.57	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-054-SA5B-SB-3.0-4.0

Collected: 1/10/2011 10:54:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.68	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5432	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L

Sample ID: SL-105-SA5B-SB-4.0-5.0

Collected: 1/10/2011 11:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-106-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:56:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SL-107-SA5B-SB-4.0-5.0

Collected: 1/10/2011 9:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L

Sample ID: SL-108-SA5B-SB-4.0-5.0

Collected: 1/10/2011 2:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-109-SA5B-SB-4.0-5.0

Collected: 1/10/2011 1:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-110-SA5B-SB-4.0-5.0

Collected: 1/10/2011 10:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SL-111-SA5B-SB-4.0-5.0

Collected: 1/10/2011 4:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.40	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-111-SA5B-SB-9.0-10

Collected: 1/10/2011 4:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L

Sample ID: SL-240-SA5B-SB-4.0-5.0

Collected: 1/10/2011 3:11:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.90	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	2.0	J	1.1	MDL	3.8	PQL	ug/Kg	J	Z, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-240-SA5B-SB-9.0-10.0

Collected: 1/10/2011 3:14:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-107-SA5B-SB-4.0-5.0

Collected: 1/10/2011 9:39:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3800	PQL	ug/Kg	UJ	Q
N-NITROSODIPHENYLAMINE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-053-SA5B-SB-1.8-2.8

Collected: 1/10/2011 9:57:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.7	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.5	J	6.7	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.84	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-054-SA5B-SB-3.0-4.0

Collected: 1/10/2011 10:54:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.95	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-111-SA5B-SB-4.0-5.0

Collected: 1/10/2011 4:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.7	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.5	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	8270C SIM	Matrix:	SO

Sample ID: SL-111-SA5B-SB-4.0-5.0 Collected: 1/10/2011 4:04:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.98	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.82	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-111-SA5B-SB-9.0-10 Collected: 1/10/2011 4:08:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.78	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.0	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-240-SA5B-SB-4.0-5.0 Collected: 1/10/2011 3:11:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Method Category:	VOA		
Method:	8260B	Matrix:	SO

Sample ID: SL-053-SA5B-SB-1.8-2.8 Collected: 1/10/2011 9:57:00 Analysis Type: RES Dilution: 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.67	J	0.26	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-054-SA5B-SB-3.0-4.0 Collected: 1/10/2011 10:54:00 Analysis Type: RES Dilution: 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.6	J	0.25	MDL	4.2	PQL	ug/Kg	U	B

Sample ID: SL-105-SA5B-SB-4.0-5.0 Collected: 1/10/2011 11:39:00 Analysis Type: RES Dilution: 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.4	J	0.24	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	VOA
Method:	8260B
Matrix:	SO

Sample ID: SL-106-SA5B-SB-4.0-5.0 Collected: 1/10/2011 1:56:00 Analysis Type: RES Dilution: 1.03

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	0.37	J	0.17	MDL	4.4	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.68	J	0.27	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-107-SA5B-SB-4.0-5.0 Collected: 1/10/2011 9:39:00 Analysis Type: RES Dilution: 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.1	J	0.23	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-108-SA5B-SB-4.0-5.0 Collected: 1/10/2011 2:53:00 Analysis Type: RES Dilution: 0.98

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.6	J	0.26	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-109-SA5B-SB-4.0-5.0 Collected: 1/10/2011 1:52:00 Analysis Type: RES Dilution: 0.83

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	0.19	J	0.14	MDL	3.8	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.0	J	0.23	MDL	3.8	PQL	ug/Kg	U	B

Sample ID: SL-110-SA5B-SB-4.0-5.0 Collected: 1/10/2011 10:28:00 Analysis Type: RES Dilution: 1.12

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.79	J	0.29	MDL	4.8	PQL	ug/Kg	U	B

Sample ID: SL-111-SA5B-SB-4.0-5.0 Collected: 1/10/2011 4:04:00 Analysis Type: RES Dilution: 0.82

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.66	J	0.22	MDL	3.7	PQL	ug/Kg	U	B

Sample ID: SL-240-SA5B-SB-4.0-5.0 Collected: 1/10/2011 3:11:00 Analysis Type: RES Dilution: 1.1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.3	J	0.30	MDL	5.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE056

Method Blank Outlier Report

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01208BB222202	1/17/2011 10:02:00 PM	PHOSPHORUS TIN	1.65 mg/Kg 1.22 mg/Kg	SL-053-SA5B-SB-1.8-2.8 SL-054-SA5B-SB-3.0-4.0 SL-105-SA5B-SB-4.0-5.0 SL-106-SA5B-SB-4.0-5.0 SL-107-SA5B-SB-4.0-5.0 SL-108-SA5B-SB-4.0-5.0 SL-109-SA5B-SB-4.0-5.0 SL-110-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-9.0-10 SL-240-SA5B-SB-4.0-5.0 SL-240-SA5B-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-053-SA5B-SB-1.8-2.8(RES)	TIN	2.47 mg/Kg	2.47U mg/Kg
SL-054-SA5B-SB-3.0-4.0(RES)	TIN	2.40 mg/Kg	2.40U mg/Kg
SL-105-SA5B-SB-4.0-5.0(RES)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-106-SA5B-SB-4.0-5.0(RES)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-107-SA5B-SB-4.0-5.0(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-108-SA5B-SB-4.0-5.0(RES)	TIN	2.32 mg/Kg	2.32U mg/Kg
SL-109-SA5B-SB-4.0-5.0(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-110-SA5B-SB-4.0-5.0(RES)	TIN	2.44 mg/Kg	2.44U mg/Kg
SL-111-SA5B-SB-4.0-5.0(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-111-SA5B-SB-9.0-10(RES)	TIN	2.29 mg/Kg	2.29U mg/Kg
SL-240-SA5B-SB-4.0-5.0(RES)	TIN	2.38 mg/Kg	2.38U mg/Kg
SL-240-SA5B-SB-9.0-10.0(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01226AB221006A	1/17/2011 10:06:00 AM	COPPER	0.109 mg/Kg	SL-053-SA5B-SB-1.8-2.8 SL-054-SA5B-SB-3.0-4.0 SL-105-SA5B-SB-4.0-5.0 SL-106-SA5B-SB-4.0-5.0 SL-107-SA5B-SB-4.0-5.0 SL-108-SA5B-SB-4.0-5.0 SL-109-SA5B-SB-4.0-5.0 SL-110-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-9.0-10 SL-240-SA5B-SB-4.0-5.0 SL-240-SA5B-SB-9.0-10.0

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Method Blank Outlier Report

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB43B211431A	1/11/2011 2:31:00 PM	METHYLENE CHLORIDE TOLUENE	0.63 ug/Kg 0.18 ug/Kg	SL-053-SA5B-SB-1.8-2.8 SL-054-SA5B-SB-3.0-4.0 SL-105-SA5B-SB-4.0-5.0 SL-106-SA5B-SB-4.0-5.0 SL-107-SA5B-SB-4.0-5.0 SL-108-SA5B-SB-4.0-5.0 SL-109-SA5B-SB-4.0-5.0 SL-110-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-4.0-5.0 SL-240-SA5B-SB-4.0-5.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-053-SA5B-SB-1.8-2.8(RES)	METHYLENE CHLORIDE	0.67 ug/Kg	4.3U ug/Kg
SL-054-SA5B-SB-3.0-4.0(RES)	METHYLENE CHLORIDE	1.6 ug/Kg	4.2U ug/Kg
SL-105-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.4 ug/Kg	4.0U ug/Kg
SL-106-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.68 ug/Kg	4.4U ug/Kg
SL-107-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	3.9U ug/Kg
SL-108-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.6 ug/Kg	4.3U ug/Kg
SL-109-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.0 ug/Kg	3.8U ug/Kg
SL-110-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.79 ug/Kg	4.8U ug/Kg
SL-111-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.66 ug/Kg	3.7U ug/Kg
SL-240-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.3 ug/Kg	5.0U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-240-SA5B-SB-4.0-5.0MS SL-240-SA5B-SB-4.0-5.0MSD (SL-053-SA5B-SB-1.8-2.8 SL-054-SA5B-SB-3.0-4.0 SL-105-SA5B-SB-4.0-5.0 SL-106-SA5B-SB-4.0-5.0 SL-107-SA5B-SB-4.0-5.0 SL-108-SA5B-SB-4.0-5.0 SL-109-SA5B-SB-4.0-5.0 SL-110-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-9.0-10 SL-240-SA5B-SB-4.0-5.0 SL-240-SA5B-SB-9.0-10.0)	CHROMIUM COPPER LEAD SILVER THALLIUM VANADIUM ZINC	167 129 155 127 133 198 304	- - - - - 129 154	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - -	CHROMIUM COPPER LEAD SILVER THALLIUM VANADIUM ZINC	J (all detects) Zn No Qual, >4x
SL-240-SA5B-SB-4.0-5.0MS SL-240-SA5B-SB-4.0-5.0MSD (SL-053-SA5B-SB-1.8-2.8 SL-054-SA5B-SB-3.0-4.0 SL-105-SA5B-SB-4.0-5.0 SL-106-SA5B-SB-4.0-5.0 SL-107-SA5B-SB-4.0-5.0 SL-108-SA5B-SB-4.0-5.0 SL-109-SA5B-SB-4.0-5.0 SL-110-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-9.0-10 SL-240-SA5B-SB-4.0-5.0 SL-240-SA5B-SB-9.0-10.0)	ANTIMONY ARSENIC CADMIUM	56 226 137	39 126 -	75.00-125.00 75.00-125.00 75.00-125.00	25 (20.00) 27 (20.00) 25 (20.00)	ANTIMONY ARSENIC CADMIUM	J(all detects) UJ(all non-detects)
SL-240-SA5B-SB-4.0-5.0MS (SL-053-SA5B-SB-1.8-2.8 SL-054-SA5B-SB-3.0-4.0 SL-105-SA5B-SB-4.0-5.0 SL-106-SA5B-SB-4.0-5.0 SL-107-SA5B-SB-4.0-5.0 SL-108-SA5B-SB-4.0-5.0 SL-109-SA5B-SB-4.0-5.0 SL-110-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-9.0-10 SL-240-SA5B-SB-4.0-5.0 SL-240-SA5B-SB-9.0-10.0)	MOLYBDENUM	133	-	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-240-SA5B-SB-4.0-5.0MS SL-240-SA5B-SB-4.0-5.0MSD (SL-053-SA5B-SB-1.8-2.8 SL-054-SA5B-SB-3.0-4.0 SL-105-SA5B-SB-4.0-5.0 SL-106-SA5B-SB-4.0-5.0 SL-107-SA5B-SB-4.0-5.0 SL-108-SA5B-SB-4.0-5.0 SL-109-SA5B-SB-4.0-5.0 SL-110-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-9.0-10 SL-240-SA5B-SB-4.0-5.0 SL-240-SA5B-SB-9.0-10.0)	BARIUM	183	-70	75.00-125.00	21 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-110-SA5B-SB-4.0-5.0MS SL-110-SA5B-SB-4.0-5.0MSD (SL-053-SA5B-SB-1.8-2.8 SL-054-SA5B-SB-3.0-4.0 SL-105-SA5B-SB-4.0-5.0 SL-106-SA5B-SB-4.0-5.0 SL-107-SA5B-SB-4.0-5.0 SL-108-SA5B-SB-4.0-5.0 SL-109-SA5B-SB-4.0-5.0 SL-110-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-9.0-10 SL-240-SA5B-SB-4.0-5.0 SL-240-SA5B-SB-9.0-10.0)	ALUMINUM CALCIUM IRON MAGNESIUM POTASSIUM TITANIUM	2002 154 1207 230 134 315	2214 163 1510 260 132 306	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - -	ALUMINUM CALCIUM IRON MAGNESIUM POTASSIUM TITANIUM	J(all detects) Al, Ca, Fe, Mg, Ti No Qual, >4x
SL-110-SA5B-SB-4.0-5.0MS SL-110-SA5B-SB-4.0-5.0MSD (SL-053-SA5B-SB-1.8-2.8 SL-054-SA5B-SB-3.0-4.0 SL-105-SA5B-SB-4.0-5.0 SL-106-SA5B-SB-4.0-5.0 SL-107-SA5B-SB-4.0-5.0 SL-108-SA5B-SB-4.0-5.0 SL-109-SA5B-SB-4.0-5.0 SL-110-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-9.0-10 SL-240-SA5B-SB-4.0-5.0 SL-240-SA5B-SB-9.0-10.0)	MANGANESE	3	-60	75.00-125.00	-	MANGANESE	No Qual, >4x

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-107-SA5B-SB-4.0-5.0MS SL-107-SA5B-SB-4.0-5.0MSD (SL-107-SA5B-SB-4.0-5.0)	BENZIDINE N-NITROSODIPHENYLAMINE	19 84	19 -	35.00-141.00 86.00-145.00	- -	BENZIDINE N-NITROSODIPHENYLAMINE	J(all detects) UU(all non-detects)

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-107-SA5B-SB-4.0-5.0MS (SL-053-SA5B-SB-1.8-2.8 SL-054-SA5B-SB-3.0-4.0 SL-105-SA5B-SB-4.0-5.0 SL-106-SA5B-SB-4.0-5.0 SL-107-SA5B-SB-4.0-5.0 SL-108-SA5B-SB-4.0-5.0 SL-109-SA5B-SB-4.0-5.0 SL-110-SA5B-SB-4.0-5.0 SL-240-SA5B-SB-4.0-5.0 SL-240-SA5B-SB-9.0-10.0)	FLUORIDE	58	-	80.00-120.00	-	FLUORIDE	J(all detects) UU(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-110-SA5B-SB-4.0-5.0DUP (SL-053-SA5B-SB-1.8-2.8 SL -054-SA5B-SB-3.0-4.0 SL -105-SA5B-SB-4.0-5.0 SL -106-SA5B-SB-4.0-5.0 SL -107-SA5B-SB-4.0-5.0 SL -108-SA5B-SB-4.0-5.0 SL -109-SA5B-SB-4.0-5.0 SL -110-SA5B-SB-4.0-5.0 SL -111-SA5B-SB-4.0-5.0 SL -111-SA5B-SB-9.0-10 SL -240-SA5B-SB-4.0-5.0 SL -240-SA5B-SB-9.0-10.0)	BORON MANGANESE Zirconium	21 23 21	20.00 20.00 20.00	J (all detects) UJ (all non-detects) B, Zr No Qual OK by difference

Method: 7471A

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-110-SA5B-SB-4.0-5.0DUP (SL-053-SA5B-SB-1.8-2.8 SL -054-SA5B-SB-3.0-4.0 SL -105-SA5B-SB-4.0-5.0 SL -106-SA5B-SB-4.0-5.0 SL -107-SA5B-SB-4.0-5.0 SL -108-SA5B-SB-4.0-5.0 SL -109-SA5B-SB-4.0-5.0 SL -110-SA5B-SB-4.0-5.0 SL -111-SA5B-SB-4.0-5.0 SL -111-SA5B-SB-9.0-10 SL -240-SA5B-SB-4.0-5.0 SL -240-SA5B-SB-9.0-10.0)	MERCURY	200	20.00	No Qual OK by difference

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-111-SA5B-SB-9.0-10DUP (SL-053-SA5B-SB-1.8-2.8 SL -054-SA5B-SB-3.0-4.0 SL -105-SA5B-SB-4.0-5.0 SL -106-SA5B-SB-4.0-5.0 SL -107-SA5B-SB-4.0-5.0 SL -108-SA5B-SB-4.0-5.0 SL -109-SA5B-SB-4.0-5.0 SL -110-SA5B-SB-4.0-5.0 SL -111-SA5B-SB-4.0-5.0 SL -111-SA5B-SB-9.0-10 SL -240-SA5B-SB-4.0-5.0 SL -240-SA5B-SB-9.0-10.0)	HEXAVALENT CHROMIUM	49	20.00	No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-240-SA5B-SB-4.0-5.0DUP (SL-053-SA5B-SB-1.8-2.8 SL -054-SA5B-SB-3.0-4.0 SL -105-SA5B-SB-4.0-5.0 SL -106-SA5B-SB-4.0-5.0 SL -107-SA5B-SB-4.0-5.0 SL -108-SA5B-SB-4.0-5.0 SL -109-SA5B-SB-4.0-5.0 SL -110-SA5B-SB-4.0-5.0 SL -111-SA5B-SB-4.0-5.0 SL -111-SA5B-SB-9.0-10 SL -240-SA5B-SB-4.0-5.0 SL -240-SA5B-SB-9.0-10.0)	ANTIMONY ARSENIC CHROMIUM COBALT LEAD SELENIUM ZINC	52 57 26 22 70 90 123	20.00 20.00 20.00 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Sb, Se No Qual OK by difference

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-107-SA5B-SB-4.0-5.0DUP (SL-053-SA5B-SB-1.8-2.8 SL -054-SA5B-SB-3.0-4.0 SL -105-SA5B-SB-4.0-5.0 SL -106-SA5B-SB-4.0-5.0 SL -107-SA5B-SB-4.0-5.0 SL -108-SA5B-SB-4.0-5.0 SL -109-SA5B-SB-4.0-5.0 SL -110-SA5B-SB-4.0-5.0 SL -240-SA5B-SB-4.0-5.0 SL -240-SA5B-SB-9.0-10.0)	FLUORIDE	21	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P01226AQ221009A (SL-053-SA5B-SB-1.8-2.8 SL-054-SA5B-SB-3.0-4.0 SL-105-SA5B-SB-4.0-5.0 SL-106-SA5B-SB-4.0-5.0 SL-107-SA5B-SB-4.0-5.0 SL-108-SA5B-SB-4.0-5.0 SL-109-SA5B-SB-4.0-5.0 SL-110-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-9.0-10 SL-240-SA5B-SB-4.0-5.0 SL-240-SA5B-SB-9.0-10.0)	ANTIMONY	125	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10130AQ241458A P10130AY241439A (SL-053-SA5B-SB-1.8-2.8 SL-054-SA5B-SB-3.0-4.0 SL-105-SA5B-SB-4.0-5.0 SL-106-SA5B-SB-4.0-5.0 SL-107-SA5B-SB-4.0-5.0 SL-108-SA5B-SB-4.0-5.0 SL-109-SA5B-SB-4.0-5.0 SL-110-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-9.0-10 SL-240-SA5B-SB-4.0-5.0 SL-240-SA5B-SB-9.0-10.0)	Aroclor 5442	61	68	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Method: 8260B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1B43Q211631A LCS1B43Y211608A (SL-053-SA5B-SB-1.8-2.8 SL-054-SA5B-SB-3.0-4.0 SL-105-SA5B-SB-4.0-5.0 SL-106-SA5B-SB-4.0-5.0 SL-107-SA5B-SB-4.0-5.0 SL-108-SA5B-SB-4.0-5.0 SL-109-SA5B-SB-4.0-5.0 SL-110-SA5B-SB-4.0-5.0 SL-111-SA5B-SB-4.0-5.0 SL-240-SA5B-SB-4.0-5.0)	Chlorotrifluoroethylene	137	145	22.00-131.00	-	Chlorotrifluoroethylene	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-053-SA5B-SB-1.8-2.8	BORON TIN	J	2.96	5.51	PQL	mg/Kg	J (all detects)
		J	2.47	11.0	PQL	mg/Kg	
SL-054-SA5B-SB-3.0-4.0	BORON TIN Zirconium	J	1.99	5.76	PQL	mg/Kg	J (all detects)
		J	2.40	11.5	PQL	mg/Kg	
		J	4.15	5.76	PQL	mg/Kg	
SL-105-SA5B-SB-4.0-5.0	BORON TIN Zirconium	J	4.10	5.51	PQL	mg/Kg	J (all detects)
		J	2.67	11.0	PQL	mg/Kg	
		J	3.19	5.51	PQL	mg/Kg	
SL-106-SA5B-SB-4.0-5.0	TIN Zirconium	J	2.36	10.4	PQL	mg/Kg	J (all detects)
		J	2.79	5.22	PQL	mg/Kg	
SL-107-SA5B-SB-4.0-5.0	BORON TIN Zirconium	J	3.75	5.64	PQL	mg/Kg	J (all detects)
		J	2.74	11.3	PQL	mg/Kg	
		J	3.52	5.64	PQL	mg/Kg	
SL-108-SA5B-SB-4.0-5.0	BORON TIN Zirconium	J	1.14	5.40	PQL	mg/Kg	J (all detects)
		J	2.32	10.8	PQL	mg/Kg	
		J	3.43	5.40	PQL	mg/Kg	
SL-109-SA5B-SB-4.0-5.0	TIN Zirconium	J	2.62	10.9	PQL	mg/Kg	J (all detects)
		J	3.61	5.47	PQL	mg/Kg	
SL-110-SA5B-SB-4.0-5.0	BORON TIN Zirconium	J	2.35	5.32	PQL	mg/Kg	J (all detects)
		J	2.44	10.6	PQL	mg/Kg	
		J	3.10	5.32	PQL	mg/Kg	
SL-111-SA5B-SB-4.0-5.0	TIN Zirconium	J	2.52	11.3	PQL	mg/Kg	J (all detects)
		J	2.86	5.64	PQL	mg/Kg	
SL-111-SA5B-SB-9.0-10	TIN Zirconium	J	2.29	11.0	PQL	mg/Kg	J (all detects)
		J	2.89	5.52	PQL	mg/Kg	
		J	2.89	5.52	PQL	mg/Kg	
SL-240-SA5B-SB-4.0-5.0	BORON TIN Zirconium	J	1.26	5.62	PQL	mg/Kg	J (all detects)
		J	2.38	11.2	PQL	mg/Kg	
		J	2.97	5.62	PQL	mg/Kg	
SL-240-SA5B-SB-9.0-10.0	TIN Zirconium	J	2.55	10.7	PQL	mg/Kg	J (all detects)
		J	2.33	5.36	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-053-SA5B-SB-1.8-2.8	ANTIMONY SELENIUM SILVER	J	0.158	0.216	PQL	mg/Kg	J (all detects)
		J	0.0802	0.432	PQL	mg/Kg	
		J	0.0545	0.108	PQL	mg/Kg	
SL-054-SA5B-SB-3.0-4.0	ANTIMONY SELENIUM SILVER	J	0.150	0.224	PQL	mg/Kg	J (all detects)
		J	0.110	0.447	PQL	mg/Kg	
		J	0.0518	0.112	PQL	mg/Kg	
SL-105-SA5B-SB-4.0-5.0	CADMIUM SELENIUM SILVER	J	0.0856	0.111	PQL	mg/Kg	J (all detects)
		J	0.158	0.445	PQL	mg/Kg	
		J	0.0840	0.111	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-106-SA5B-SB-4.0-5.0	ANTIMONY	J	0.151	0.205	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0494	0.102	PQL	mg/Kg	
	SELENIUM	J	0.118	0.410	PQL	mg/Kg	
	SILVER	J	0.0240	0.102	PQL	mg/Kg	
SL-107-SA5B-SB-4.0-5.0	ANTIMONY	J	0.154	0.230	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0613	0.115	PQL	mg/Kg	
	SELENIUM	J	0.0617	0.460	PQL	mg/Kg	
	SILVER	J	0.0643	0.115	PQL	mg/Kg	
SL-108-SA5B-SB-4.0-5.0	ANTIMONY	J	0.0641	0.210	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0640	0.105	PQL	mg/Kg	
	SELENIUM	J	0.0797	0.420	PQL	mg/Kg	
	SILVER	J	0.0760	0.105	PQL	mg/Kg	
SL-109-SA5B-SB-4.0-5.0	ANTIMONY	J	0.169	0.219	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0651	0.109	PQL	mg/Kg	
	SELENIUM	J	0.133	0.438	PQL	mg/Kg	
	SILVER	J	0.0362	0.109	PQL	mg/Kg	
SL-110-SA5B-SB-4.0-5.0	ANTIMONY	J	0.143	0.209	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.103	0.104	PQL	mg/Kg	
	SELENIUM	J	0.0628	0.417	PQL	mg/Kg	
	SILVER	J	0.0679	0.104	PQL	mg/Kg	
SL-111-SA5B-SB-4.0-5.0	ANTIMONY	J	0.217	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.109	0.442	PQL	mg/Kg	
	SILVER	J	0.0606	0.111	PQL	mg/Kg	
SL-111-SA5B-SB-9.0-10	ANTIMONY	J	0.181	0.225	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.106	0.113	PQL	mg/Kg	
	SELENIUM	J	0.0804	0.450	PQL	mg/Kg	
	SILVER	J	0.0327	0.113	PQL	mg/Kg	
SL-240-SA5B-SB-4.0-5.0	SELENIUM	J	0.115	0.445	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0423	0.111	PQL	mg/Kg	
SL-240-SA5B-SB-9.0-10.0	ANTIMONY	J	0.0743	0.221	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0883	0.110	PQL	mg/Kg	
	SELENIUM	J	0.0708	0.442	PQL	mg/Kg	
	SILVER	J	0.0133	0.110	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-054-SA5B-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.68	1.2	PQL	mg/Kg	J (all detects)
SL-106-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.52	1.1	PQL	mg/Kg	J (all detects)
SL-107-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.42	1.2	PQL	mg/Kg	J (all detects)
SL-108-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.35	1.1	PQL	mg/Kg	J (all detects)
SL-109-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-110-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-111-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-111-SA5B-SB-9.0-10	HEXAVALENT CHROMIUM	J	0.28	1.1	PQL	mg/Kg	J (all detects)
SL-240-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.31	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-053-SA5B-SB-1.8-2.8	MERCURY	J	0.0168	0.105	PQL	mg/Kg	J (all detects)
SL-054-SA5B-SB-3.0-4.0	MERCURY	J	0.0116	0.107	PQL	mg/Kg	J (all detects)
SL-105-SA5B-SB-4.0-5.0	MERCURY	J	0.0083	0.108	PQL	mg/Kg	J (all detects)
SL-108-SA5B-SB-4.0-5.0	MERCURY	J	0.0078	0.109	PQL	mg/Kg	J (all detects)
SL-110-SA5B-SB-4.0-5.0	MERCURY	J	0.0193	0.103	PQL	mg/Kg	J (all detects)
SL-111-SA5B-SB-9.0-10	MERCURY	J	0.0068	0.107	PQL	mg/Kg	J (all detects)
SL-240-SA5B-SB-4.0-5.0	MERCURY	J	0.0272	0.109	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-053-SA5B-SB-1.8-2.8	AROCLOR 1260	J	0.57	1.9	PQL	ug/Kg	J (all detects)
SL-054-SA5B-SB-3.0-4.0	AROCLOR 1254	J	0.68	2.0	PQL	ug/Kg	J (all detects)
SL-111-SA5B-SB-4.0-5.0	AROCLOR 1254	J	0.40	1.9	PQL	ug/Kg	J (all detects)
SL-240-SA5B-SB-4.0-5.0	AROCLOR 1254 Aroclor 5460	J J	0.90 2.0	1.9 3.8	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-053-SA5B-SB-1.8-2.8	METHYLENE CHLORIDE	J	0.67	4.3	PQL	ug/Kg	J (all detects)
SL-054-SA5B-SB-3.0-4.0	METHYLENE CHLORIDE	J	1.6	4.2	PQL	ug/Kg	J (all detects)
SL-105-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.4	4.0	PQL	ug/Kg	J (all detects)
SL-106-SA5B-SB-4.0-5.0	1,2-DICHLOROETHANE METHYLENE CHLORIDE	J J	0.37 0.68	4.4 4.4	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-107-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.1	3.9	PQL	ug/Kg	J (all detects)
SL-108-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	2.6	4.3	PQL	ug/Kg	J (all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE056

Laboratory: LL

EDD Filename: DE056_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-109-SA5B-SB-4.0-5.0	1,2-DICHLOROETHANE	J	0.19	3.8	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.0	3.8	PQL	ug/Kg	
SL-110-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.79	4.8	PQL	ug/Kg	J (all detects)
SL-111-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.66	3.7	PQL	ug/Kg	J (all detects)
SL-240-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	2.3	5.0	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-053-SA5B-SB-1.8-2.8	BENZO(A)ANTHRACENE	J	1.7	1.9	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.1	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.5	20	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.84	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.9	PQL	ug/Kg	
SL-054-SA5B-SB-3.0-4.0	BENZO(B)FLUORANTHENE	J	0.95	1.9	PQL	ug/Kg	J (all detects)
SL-111-SA5B-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.7	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.5	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.98	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.82	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.9	PQL	ug/Kg	
SL-111-SA5B-SB-9.0-10	BENZO(B)FLUORANTHENE	J	0.78	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.0	1.9	PQL	ug/Kg	
SL-240-SA5B-SB-4.0-5.0	DIBENZO(A,H)ANTHRACENE	J	1.2	1.9	PQL	ug/Kg	J (all detects)

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	-	
III.	Calibration	-	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ga, Fe, Mg, Mn, Ti, Ba, Zn > 4X)
VII.	Duplicate Sample Analysis	N	DUP (B, Hg, Zr, Sb, Se, As < 5x RCL)
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/J/A
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	-	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

501

1	SL-107-SA5B-SB-4.0-5.0	11	SL-111-SA5B-SB-4.0-5.0	21		31	
2	SL-053-SA5B-SB-1.8-2.8	12	SL-111-SA5B-SB-9.0-10.0	22		32	
3	SL-054-SA5B-SB-3.0-4.0	13	(#4) MS (TCP)	23		33	
4	SL-110-SA5B-SB-4.0-5.0	14	MSD	24		34	
5	SL-105-SA5B-SB-4.0-5.0	15	DUP	25		35	
6	SL-109-SA5B-SB-4.0-5.0	16	(#7) MS (MS)	26		36	
7	SL-240-SA5B-SB-4.0-5.0	17	MSD	27		37	
8	SL-240-SA5B-SB-9.0-10.0	18	DUP	28		38	
9	SL-106-SA5B-SB-4.0-5.0	19		29		39	
10	SL-108-SA5B-SB-4.0-5.0	20		30		40	

Notes: _____

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Sample Concentration units, unless otherwise noted: mg/Kg

Soil preparation factor applied: 100x x MS: 2xdl

Associated Samples: All

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	1	2	3	4	5	6	7	8	9	10	11	12	
Sb			0.46	0.46	0.15	0.16	0.15	0.14	0.36	0.17	0.28	0.074	0.15	0.064	0.22	0.18	

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 2, 3, 5-12

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	No Quals												
Zr			4.1	2.05													

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note: a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.



QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: DE056

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6180999BKG

Serial Dilution Lab Sample ID: 6180999L

Batch ID(s): P01208B

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		182752.6200		203646.6500		11	E	P
Boron		22.0800	B	44.5000	U	100		P
Calcium		22871.0200		25050.9000		10		P
Iron		200829.4700		218147.5000		9		P
Lithium		254.9200		283.3000		11	E	P
Magnesium		42409.8100		46479.6000		10		P
Manganese		3135.2500		3497.3500		12	E	P
Phosphorus		1452.6600		1542.4000		6		P
Potassium		17049.3600		18742.8500		10		P
Sodium		1527.2600		1865.0000	U	100		P
Strontium		196.2300		219.0000		12	E	P
Tin		22.9800	B	50.0000	U	100		P
Titanium		11948.5900		13485.7500		13	E	P
Zirconium		29.1500	B	54.1500	B	86		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:

P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:

DE056 2336

U= Below MDL

B= Below LOQ

FLAGS:

E = Matrix Effects exist as proven by
Serial Dilution or Spiked Dilution



QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: DE056

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6181002BKG

Serial Dilution Lab Sample ID: 6181002L

Batch ID(s): P01226A

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Antimony	121	1.2570		1.5000	U	100		MS
Arsenic	75	20.6100		26.6750		29		MS
Barium	137	600.7000		652.0000		9		MS
Beryllium	9	2.9380		3.4630		18		MS
Cadmium	111	0.8268		1.0000	U	100		MS
Chromium	52	97.0200		113.8500		17	E	MS
Cobalt	59	38.1300		45.9700		21	E	MS
Copper	63	47.5700		56.7000		19	E	MS
Lead	208	29.3300		33.5350		14	E	MS
Molybdenum	98	4.0290		3.3635		17		MS
Nickel	60	68.1900		82.8500		21	E	MS
Selenium	78	0.5169	B	1.0000	U	100		MS
Silver	107	0.1901	B	0.3428	B	80		MS
Thallium	203	1.3110		1.6255	B	24		MS
Vanadium	51	185.4000		210.1500		13	E	MS
Zinc	66	305.3000		336.6500		10		MS

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:

P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:

DE056 2337

U= Below MDL

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FLAGS:

E = Matrix Effects exist as proven by
Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE057

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jan-2011	TB-011111	6182713	TB	5030B	8015M	III
11-Jan-2011	TB-011111	6182713	TB	5030B	8260B	III
11-Jan-2011	TB-011111	6182713	TB	5030B	8260B SIM	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	3050B	6010B	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	3050B	6020	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	3060A	7199	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	3546	1625C	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	3550B	8015B	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	3550B	8015M	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	3550B	8082	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	3550B	8270C	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	3550B	8270C SIM	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	5035	8015M	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	5035	8260B	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	5035	8260B SIM	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	8330	8330A	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	Gen Prep	314.0	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	Gen Prep	9045M	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	METHOD	300.0	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	METHOD	7471A	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	METHOD	8015B	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	METHOD	8015M	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	METHOD	8315A	III
11-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182704	N	METHOD	9012B	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	3050B	6010B	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	3050B	6020	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	3060A	7199	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	3546	1625C	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	3550B	8015B	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	3550B	8015M	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	3550B	8082	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	3550B	8270C	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	3550B	8270C SIM	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	5035	8015M	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	5035	8260B	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	5035	8260B SIM	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	8330	8330A	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	Gen Prep	314.0	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	Gen Prep	9045M	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	METHOD	300.0	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	METHOD	7471A	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	METHOD	8015B	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	METHOD	8015M	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	METHOD	8315A	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182703	N	METHOD	9012B	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	3050B	6010B	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	3050B	6020	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	3060A	7199	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	3546	1625C	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	3550B	8015B	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	3550B	8015M	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	3550B	8082	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

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FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	3550B	8270C	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	3550B	8270C SIM	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	5035	8015M	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	5035	8260B	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	5035	8260B SIM	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	8330	8330A	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	Gen Prep	314.0	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	Gen Prep	9045M	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	METHOD	300.0	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	METHOD	7471A	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	METHOD	8015B	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	METHOD	8015M	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	METHOD	8315A	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182702	N	METHOD	9012B	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0DUP	P182702D220456	DUP	METHOD	7471A	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0DUP	P182702D220544	DUP	3050B	6010B	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0DUP	P182702D221313A	DUP	3050B	6020	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0DUP	P182702D221313B	DUP	3050B	6020	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0DUP	P182702D221313C	DUP	3050B	6020	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0DUP	P182702D221313D	DUP	3050B	6020	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0DUP	P182702D221423	DUP	3050B	6010B	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0DUP	P182702D221913A	DUP	3050B	6020	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0DUP	P182702D271825A	DUP	METHOD	9012B	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0DUP	P182702D272326A	DUP	METHOD	300.0	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MSD	P182702M220459	MSD	METHOD	7471A	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MSD	P182702M220553	MSD	3050B	6010B	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MSD	P182702M221319A	MSD	3050B	6020	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MSD	P182702M221319B	MSD	3050B	6020	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MSD	P182702M221319C	MSD	3050B	6020	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MSD	P182702M221319D	MSD	3050B	6020	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MSD	P182702M221431	MSD	3050B	6010B	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MSD	P182702M221917A	MSD	3050B	6020	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MS	P182702R210336A	MS	5035	8260B	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MS	P182702R220457	MS	METHOD	7471A	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MS	P182702R220548	MS	3050B	6010B	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MS	P182702R221316A	MS	3050B	6020	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MS	P182702R221316B	MS	3050B	6020	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MS	P182702R221316C	MS	3050B	6020	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MS	P182702R221316D	MS	3050B	6020	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MS	P182702R221427	MS	3050B	6010B	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MS	P182702R221915A	MS	3050B	6020	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MS	P182702R271827A	MS	METHOD	9012B	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0MS	P182702R272338A	MS	METHOD	300.0	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	3050B	6010B	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	3050B	6020	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	3060A	7199	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	3546	1625C	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	3550B	8015B	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	3550B	8015M	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	3550B	8082	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	3550B	8270C	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	3550B	8270C SIM	III

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FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	5035	8015M	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	5035	8260B	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	5035	8260B SIM	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	8330	8330A	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	Gen Prep	314.0	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	Gen Prep	9045M	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	METHOD	300.0	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	METHOD	6850	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	METHOD	7471A	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	METHOD	8015B	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	METHOD	8015M	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	METHOD	8315A	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182706	N	METHOD	9012B	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	3050B	6010B	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	3050B	6020	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	3060A	7199	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	3546	1625C	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	3550B	8015B	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	3550B	8015M	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	3550B	8082	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	3550B	8270C	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	3550B	8270C SIM	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	5035	8015M	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	5035	8260B	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	5035	8260B SIM	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	8330	8330A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	Gen Prep	314.0	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	Gen Prep	9045M	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	METHOD	300.0	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	METHOD	7471A	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	METHOD	8015B	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	METHOD	8015M	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	METHOD	8315A	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182705	N	METHOD	9012B	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	3050B	6010B	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	3050B	6020	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	3060A	7199	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	3546	1625C	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	3550B	8015B	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	3550B	8015M	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	3550B	8082	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	3550B	8270C	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	3550B	8270C SIM	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	5035	8015M	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	5035	8260B	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	5035	8260B SIM	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	8330	8330A	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	Gen Prep	314.0	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	Gen Prep	9045M	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	METHOD	300.0	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	METHOD	7471A	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	METHOD	8015B	III

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TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	METHOD	8015M	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	METHOD	8315A	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182708	N	METHOD	9012B	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	3050B	6010B	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	3050B	6020	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	3060A	7199	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	3546	1625C	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	3550B	8015B	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	3550B	8015M	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	3550B	8082	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	3550B	8270C	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	3550B	8270C SIM	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	5035	8015M	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	5035	8260B	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	5035	8260B SIM	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	8330	8330A	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	Gen Prep	314.0	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	Gen Prep	9045M	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	METHOD	300.0	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	METHOD	7471A	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	METHOD	8015B	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	METHOD	8015M	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	METHOD	8315A	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182707	N	METHOD	9012B	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	3050B	6010B	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	3060A	7199	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	3546	1625C	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	3550B	8015B	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	3550B	8015M	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	3550B	8082	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	3550B	8270C	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	3550B	8270C SIM	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	5035	8015M	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	5035	8260B	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	5035	8260B SIM	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	8330	8330A	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	Gen Prep	9045M	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	METHOD	300.0	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	METHOD	314.0	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	METHOD	7471A	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	METHOD	8015B	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	METHOD	8015M	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	METHOD	8315A	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182709	N	METHOD	9012B	III
11-Jan-2011	SL-093-SA5B-SB-3.0-4.0	6182712	N	3050B	6010B	III
11-Jan-2011	SL-093-SA5B-SB-3.0-4.0	6182712	N	3050B	6020	III
11-Jan-2011	SL-093-SA5B-SB-3.0-4.0	6182712	N	3060A	7199	III
11-Jan-2011	SL-093-SA5B-SB-3.0-4.0	6182712	N	3550B	8082	III
11-Jan-2011	SL-093-SA5B-SB-3.0-4.0	6182712	N	3550B	8270C	III
11-Jan-2011	SL-093-SA5B-SB-3.0-4.0	6182712	N	3550B	8270C SIM	III
11-Jan-2011	SL-093-SA5B-SB-3.0-4.0	6182712	N	5035	8260B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jan-2011	SL-093-SA5B-SB-3.0-4.0	6182712	N	5035	8260B SIM	III
11-Jan-2011	SL-093-SA5B-SB-3.0-4.0	6182712	N	Gen Prep	9045M	III
11-Jan-2011	SL-093-SA5B-SB-3.0-4.0	6182712	N	METHOD	300.0	III
11-Jan-2011	SL-093-SA5B-SB-3.0-4.0	6182712	N	METHOD	314.0	III
11-Jan-2011	SL-093-SA5B-SB-3.0-4.0	6182712	N	METHOD	7471A	III
11-Jan-2011	SL-086-SA5B-SB-4.0-5.0	6182710	N	3050B	6010B	III
11-Jan-2011	SL-086-SA5B-SB-4.0-5.0	6182710	N	3050B	6020	III
11-Jan-2011	SL-086-SA5B-SB-4.0-5.0	6182710	N	3060A	7199	III
11-Jan-2011	SL-086-SA5B-SB-4.0-5.0	6182710	N	3550B	8082	III
11-Jan-2011	SL-086-SA5B-SB-4.0-5.0	6182710	N	3550B	8270C	III
11-Jan-2011	SL-086-SA5B-SB-4.0-5.0	6182710	N	3550B	8270C SIM	III
11-Jan-2011	SL-086-SA5B-SB-4.0-5.0	6182710	N	5035	8260B	III
11-Jan-2011	SL-086-SA5B-SB-4.0-5.0	6182710	N	5035	8260B SIM	III
11-Jan-2011	SL-086-SA5B-SB-4.0-5.0	6182710	N	Gen Prep	9045M	III
11-Jan-2011	SL-086-SA5B-SB-4.0-5.0	6182710	N	METHOD	300.0	III
11-Jan-2011	SL-086-SA5B-SB-4.0-5.0	6182710	N	METHOD	314.0	III
11-Jan-2011	SL-086-SA5B-SB-4.0-5.0	6182710	N	METHOD	7471A	III
11-Jan-2011	SL-094-SA5B-SB-4.0-5.0	6182711	N	3050B	6010B	III
11-Jan-2011	SL-094-SA5B-SB-4.0-5.0	6182711	N	3050B	6020	III
11-Jan-2011	SL-094-SA5B-SB-4.0-5.0	6182711	N	3060A	7199	III
11-Jan-2011	SL-094-SA5B-SB-4.0-5.0	6182711	N	3550B	8082	III
11-Jan-2011	SL-094-SA5B-SB-4.0-5.0	6182711	N	3550B	8270C	III
11-Jan-2011	SL-094-SA5B-SB-4.0-5.0	6182711	N	3550B	8270C SIM	III
11-Jan-2011	SL-094-SA5B-SB-4.0-5.0	6182711	N	5035	8260B	III
11-Jan-2011	SL-094-SA5B-SB-4.0-5.0	6182711	N	5035	8260B SIM	III
11-Jan-2011	SL-094-SA5B-SB-4.0-5.0	6182711	N	Gen Prep	9045M	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jan-2011	SL-094-SA5B-SB-4.0-5.0	6182711	N	METHOD	300.0	III
11-Jan-2011	SL-094-SA5B-SB-4.0-5.0	6182711	N	METHOD	314.0	III
11-Jan-2011	SL-094-SA5B-SB-4.0-5.0	6182711	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM
Method:	300.0
Matrix:	SO

Sample ID: SL-087-SA5B-SB-3.0-4.0			Collected: 1/11/2011 9:08:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.1	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-099-SA5B-SB-4.0-5.0			Collected: 1/11/2011 10:26:00		Analysis Type: RES		Dilution: 1		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.3	J	0.92	MDL	1.7	PQL	mg/Kg	J	Z

Method Category:	METALS
Method:	6010B
Matrix:	SO

Sample ID: SL-085-SA5B-SB-3.0-4.0			Collected: 1/11/2011 11:35:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	204		0.0813	MDL	0.521	PQL	mg/Kg	J	E
PHOSPHORUS	216		0.583	MDL	10.4	PQL	mg/Kg	J	Q
TIN	2.95	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.66	J	0.875	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA5B-SB-4.0-5.0			Collected: 1/11/2011 4:00:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	164		0.0858	MDL	0.550	PQL	mg/Kg	J	E
PHOSPHORUS	121		0.616	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.71	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.24	J	0.924	MDL	5.50	PQL	mg/Kg	J	Z

Sample ID: SL-087-SA5B-SB-3.0-4.0			Collected: 1/11/2011 9:08:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	278		0.0823	MDL	0.528	PQL	mg/Kg	J	E
PHOSPHORUS	324		0.591	MDL	10.6	PQL	mg/Kg	J	Q
TIN	2.44	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

7/6/2011 11:55:14 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-088-SA5B-SB-3.0-4.0

Collected: 1/11/2011 10:28:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.53	J	0.993	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SL-088-SA5B-SB-3.0-4.0

Collected: 1/11/2011 10:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	310		0.0871	MDL	0.558	PQL	mg/Kg	J	E
PHOSPHORUS	291		0.625	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.41	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.01	J	0.938	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA5B-SB-4.0-5.0

Collected: 1/11/2011 2:04:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.11	J	1.00	MDL	5.63	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA5B-SB-4.0-5.0

Collected: 1/11/2011 2:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	351		0.0879	MDL	0.563	PQL	mg/Kg	J	E
PHOSPHORUS	346		0.631	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.76	J	1.13	MDL	11.3	PQL	mg/Kg	U	B

Sample ID: SL-090-SA5B-SB-2.5-3.5

Collected: 1/11/2011 1:05:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.59	J	0.926	MDL	5.20	PQL	mg/Kg	J	Z

Sample ID: SL-090-SA5B-SB-2.5-3.5

Collected: 1/11/2011 1:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	292		0.0812	MDL	0.520	PQL	mg/Kg	J	E
PHOSPHORUS	316		0.583	MDL	10.4	PQL	mg/Kg	J	Q
TIN	2.25	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.88	J	0.874	MDL	5.20	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

7/6/2011 11:55:14 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-091-SA5B-SB-4.0-5.0

Collected: 1/11/2011 3:15:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.29	J	0.984	MDL	5.53	PQL	mg/Kg	J	Z

Sample ID: SL-091-SA5B-SB-4.0-5.0

Collected: 1/11/2011 3:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	227		0.0863	MDL	0.553	PQL	mg/Kg	J	E
PHOSPHORUS	198		0.619	MDL	11.1	PQL	mg/Kg	J	Q
TIN	2.82	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.74	J	0.929	MDL	5.53	PQL	mg/Kg	J	Z

Sample ID: SL-093-SA5B-SB-3.0-4.0

Collected: 1/11/2011 3:26:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	457		0.0857	MDL	0.549	PQL	mg/Kg	J	E
PHOSPHORUS	248		0.615	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.47	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.29	J	0.923	MDL	5.49	PQL	mg/Kg	J	Z

Sample ID: SL-094-SA5B-SB-4.0-5.0

Collected: 1/11/2011 4:28:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.50	J	1.01	MDL	5.66	PQL	mg/Kg	J	Z

Sample ID: SL-094-SA5B-SB-4.0-5.0

Collected: 1/11/2011 4:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	167		0.0883	MDL	0.566	PQL	mg/Kg	J	E
PHOSPHORUS	156		0.634	MDL	11.3	PQL	mg/Kg	J	Q
TIN	3.17	J	1.13	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	2.25	J	0.951	MDL	5.66	PQL	mg/Kg	J	Z

Sample ID: SL-099-SA5B-SB-4.0-5.0

Collected: 1/11/2011 10:26:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.14	J	0.971	MDL	5.45	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

7/6/2011 11:55:14 AM

ADR version 1.4.0.111

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-099-SA5B-SB-4.0-5.0

Collected: 1/11/2011 10:26:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	293		0.0851	MDL	0.545	PQL	mg/Kg	J	E
PHOSPHORUS	291		0.611	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.92	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.17	J	0.916	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-100-SA5B-SB-4.0-5.0

Collected: 1/11/2011 9:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	375		0.0838	MDL	0.537	PQL	mg/Kg	J	E
PHOSPHORUS	329		0.602	MDL	10.7	PQL	mg/Kg	J	Q
TIN	2.69	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.64	J	0.903	MDL	5.37	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-085-SA5B-SB-3.0-4.0

Collected: 1/11/2011 11:35:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	42.7		0.0236	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-085-SA5B-SB-3.0-4.0

Collected: 1/11/2011 11:35:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0822	J	0.0429	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-085-SA5B-SB-3.0-4.0

Collected: 1/11/2011 11:35:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.116	MDL	0.429	PQL	mg/Kg	J	E

Sample ID: SL-085-SA5B-SB-3.0-4.0

Collected: 1/11/2011 11:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.132	J	0.0644	MDL	0.215	PQL	mg/Kg	J	Z, Q, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

7/6/2011 11:55:15 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-085-SA5B-SB-3.0-4.0

Collected: 1/11/2011 11:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.757		0.0172	MDL	0.107	PQL	mg/Kg	J	Q
CADMIUM	0.0517	J	0.0429	MDL	0.107	PQL	mg/Kg	J	Z
CHROMIUM	18.8		0.129	MDL	0.429	PQL	mg/Kg	J	Q
COPPER	6.05		0.0708	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.0414	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z
ZINC	42.9		0.601	MDL	3.22	PQL	mg/Kg	J	Q

Sample ID: SL-086-SA5B-SB-4.0-5.0

Collected: 1/11/2011 4:00:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	34.1		0.0235	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-086-SA5B-SB-4.0-5.0

Collected: 1/11/2011 4:00:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0659	J	0.0428	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA5B-SB-4.0-5.0

Collected: 1/11/2011 4:00:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	86.4		0.115	MDL	0.428	PQL	mg/Kg	J	E

Sample ID: SL-086-SA5B-SB-4.0-5.0

Collected: 1/11/2011 4:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0682	J	0.0641	MDL	0.214	PQL	mg/Kg	J	Z, Q, Q, E
BERYLLIUM	0.522		0.0171	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	16.9		0.128	MDL	0.428	PQL	mg/Kg	J	Q
COPPER	3.81		0.0705	MDL	0.428	PQL	mg/Kg	J	Q
SILVER	0.0482	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z
ZINC	39.0		0.599	MDL	3.21	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-087-SA5B-SB-3.0-4.0

Collected: 1/11/2011 9:08:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	27.4		0.0230	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-087-SA5B-SB-3.0-4.0

Collected: 1/11/2011 9:08:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	62.4		0.113	MDL	0.418	PQL	mg/Kg	J	E

Sample ID: SL-087-SA5B-SB-3.0-4.0

Collected: 1/11/2011 9:08:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0627	U	0.0627	MDL	0.209	PQL	mg/Kg	R	Q
BERYLLIUM	0.328		0.0167	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	13.4		0.125	MDL	0.418	PQL	mg/Kg	J	Q
COPPER	5.56		0.0690	MDL	0.418	PQL	mg/Kg	J	Q
ZINC	42.3		0.585	MDL	3.14	PQL	mg/Kg	J	Q

Sample ID: SL-088-SA5B-SB-3.0-4.0

Collected: 1/11/2011 10:28:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	34.2		0.0241	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-088-SA5B-SB-3.0-4.0

Collected: 1/11/2011 10:28:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-088-SA5B-SB-3.0-4.0

Collected: 1/11/2011 10:28:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	98.1		0.118	MDL	0.438	PQL	mg/Kg	J	E

Sample ID: SL-088-SA5B-SB-3.0-4.0

Collected: 1/11/2011 10:28:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0657	MDL	0.219	PQL	mg/Kg	J	Z, Q, Q, E
BERYLLIUM	0.569		0.0175	MDL	0.109	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-088-SA5B-SB-3.0-4.0

Collected: 1/11/2011 10:28:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	17.3		0.131	MDL	0.438	PQL	mg/Kg	J	Q
COPPER	8.73		0.0722	MDL	0.438	PQL	mg/Kg	J	Q
SILVER	0.0297	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z
ZINC	111		0.613	MDL	3.28	PQL	mg/Kg	J	Q

Sample ID: SL-089-SA5B-SB-4.0-5.0

Collected: 1/11/2011 2:04:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	42.6		0.0253	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-089-SA5B-SB-4.0-5.0

Collected: 1/11/2011 2:04:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0460	MDL	0.460	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA5B-SB-4.0-5.0

Collected: 1/11/2011 2:04:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	140		0.124	MDL	0.460	PQL	mg/Kg	J	E

Sample ID: SL-089-SA5B-SB-4.0-5.0

Collected: 1/11/2011 2:04:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.152	J	0.0690	MDL	0.230	PQL	mg/Kg	J	Z, Q, Q, E
BERYLLIUM	0.795		0.0184	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	21.9		0.138	MDL	0.460	PQL	mg/Kg	J	Q
COPPER	6.46		0.0759	MDL	0.460	PQL	mg/Kg	J	Q
SILVER	0.0481	J	0.0138	MDL	0.115	PQL	mg/Kg	J	Z
ZINC	45.7		0.644	MDL	3.45	PQL	mg/Kg	J	Q

Sample ID: SL-090-SA5B-SB-2.5-3.5

Collected: 1/11/2011 1:05:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	32.7		0.0236	MDL	0.107	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-090-SA5B-SB-2.5-3.5

Collected: 1/11/2011 1:05:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0848	J	0.0429	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-090-SA5B-SB-2.5-3.5

Collected: 1/11/2011 1:05:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.116	MDL	0.429	PQL	mg/Kg	J	E

Sample ID: SL-090-SA5B-SB-2.5-3.5

Collected: 1/11/2011 1:05:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0784	J	0.0643	MDL	0.214	PQL	mg/Kg	J	Z, Q, Q, E
BERYLLIUM	0.613		0.0171	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	16.2		0.129	MDL	0.429	PQL	mg/Kg	J	Q
COPPER	8.34		0.0707	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.0393	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z
ZINC	47.5		0.600	MDL	3.21	PQL	mg/Kg	J	Q

Sample ID: SL-091-SA5B-SB-4.0-5.0

Collected: 1/11/2011 3:15:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	39.0		0.0243	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-091-SA5B-SB-4.0-5.0

Collected: 1/11/2011 3:15:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0586	J	0.0442	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-091-SA5B-SB-4.0-5.0

Collected: 1/11/2011 3:15:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	103		0.119	MDL	0.442	PQL	mg/Kg	J	E

Sample ID: SL-091-SA5B-SB-4.0-5.0

Collected: 1/11/2011 3:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.181	J	0.0663	MDL	0.221	PQL	mg/Kg	J	Z, Q, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-091-SA5B-SB-4.0-5.0

Collected: 1/11/2011 3:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.717		0.0177	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	20.0		0.133	MDL	0.442	PQL	mg/Kg	J	Q
COPPER	5.79		0.0730	MDL	0.442	PQL	mg/Kg	J	Q
SILVER	0.0387	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z
ZINC	43.7		0.619	MDL	3.32	PQL	mg/Kg	J	Q

Sample ID: SL-093-SA5B-SB-3.0-4.0

Collected: 1/11/2011 3:26:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	33.5		0.0232	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-093-SA5B-SB-3.0-4.0

Collected: 1/11/2011 3:26:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0627	J	0.0423	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-093-SA5B-SB-3.0-4.0

Collected: 1/11/2011 3:26:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	81.5		0.114	MDL	0.423	PQL	mg/Kg	J	E

Sample ID: SL-093-SA5B-SB-3.0-4.0

Collected: 1/11/2011 3:26:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.138	J	0.0634	MDL	0.211	PQL	mg/Kg	J	Z, Q, Q, E
BERYLLIUM	0.564		0.0169	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	14.9		0.127	MDL	0.423	PQL	mg/Kg	J	Q
COPPER	5.89		0.0697	MDL	0.423	PQL	mg/Kg	J	Q
ZINC	46.2		0.592	MDL	3.17	PQL	mg/Kg	J	Q

Sample ID: SL-094-SA5B-SB-4.0-5.0

Collected: 1/11/2011 4:28:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	41.0		0.0242	MDL	0.110	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-094-SA5B-SB-4.0-5.0

Collected: 1/11/2011 4:28:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0666	J	0.0440	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SL-094-SA5B-SB-4.0-5.0

Collected: 1/11/2011 4:28:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	93.6		0.119	MDL	0.440	PQL	mg/Kg	J	E

Sample ID: SL-094-SA5B-SB-4.0-5.0

Collected: 1/11/2011 4:28:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0843	J	0.0660	MDL	0.220	PQL	mg/Kg	J	Z, Q, Q, E
BERYLLIUM	0.924		0.0176	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	18.9		0.132	MDL	0.440	PQL	mg/Kg	J	Q
COPPER	6.84		0.0726	MDL	0.440	PQL	mg/Kg	J	Q
SILVER	0.0551	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z
ZINC	46.3		0.616	MDL	3.30	PQL	mg/Kg	J	Q

Sample ID: SL-099-SA5B-SB-4.0-5.0

Collected: 1/11/2011 10:26:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	42.9		0.0247	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-099-SA5B-SB-4.0-5.0

Collected: 1/11/2011 10:26:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.0449	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-099-SA5B-SB-4.0-5.0

Collected: 1/11/2011 10:26:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	71.7		0.121	MDL	0.449	PQL	mg/Kg	J	E

Sample ID: SL-099-SA5B-SB-4.0-5.0

Collected: 1/11/2011 10:26:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.242		0.0674	MDL	0.225	PQL	mg/Kg	J	Q, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-099-SA5B-SB-4.0-5.0

Collected: 1/11/2011 10:26:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.734		0.0180	MDL	0.112	PQL	mg/Kg	J	Q
CADMIUM	0.0485	J	0.0449	MDL	0.112	PQL	mg/Kg	J	Z
CHROMIUM	21.5		0.135	MDL	0.449	PQL	mg/Kg	J	Q
COPPER	4.91		0.0741	MDL	0.449	PQL	mg/Kg	J	Q
SILVER	0.0427	J	0.0135	MDL	0.112	PQL	mg/Kg	J	Z
ZINC	41.6		0.629	MDL	3.37	PQL	mg/Kg	J	Q

Sample ID: SL-100-SA5B-SB-4.0-5.0

Collected: 1/11/2011 9:22:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	41.4		0.0234	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-100-SA5B-SB-4.0-5.0

Collected: 1/11/2011 9:22:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.136	J	0.0426	MDL	0.426	PQL	mg/Kg	J	Z

Sample ID: SL-100-SA5B-SB-4.0-5.0

Collected: 1/11/2011 9:22:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	100		0.115	MDL	0.426	PQL	mg/Kg	J	E

Sample ID: SL-100-SA5B-SB-4.0-5.0

Collected: 1/11/2011 9:22:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.165	J	0.0639	MDL	0.213	PQL	mg/Kg	J	Z, Q, Q, E
BERYLLIUM	0.668		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.0560	J	0.0426	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	20.8		0.128	MDL	0.426	PQL	mg/Kg	J	Q
COPPER	8.08		0.0703	MDL	0.426	PQL	mg/Kg	J	Q
SILVER	0.0138	J	0.0128	MDL	0.106	PQL	mg/Kg	J	Z
ZINC	53.2		0.596	MDL	3.19	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-085-SA5B-SB-3.0-4.0

Collected: 1/11/2011 11:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.97	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-088-SA5B-SB-3.0-4.0

Collected: 1/11/2011 10:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA5B-SB-4.0-5.0

Collected: 1/11/2011 2:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-090-SA5B-SB-2.5-3.5

Collected: 1/11/2011 1:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-091-SA5B-SB-4.0-5.0

Collected: 1/11/2011 3:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-094-SA5B-SB-4.0-5.0

Collected: 1/11/2011 4:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C

Matrix: SO

Sample ID: SL-085-SA5B-SB-3.0-4.0

Collected: 1/11/2011 11:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	22.1	J	18.1	MDL	36.1	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1625C

Matrix: SO

Sample ID: SL-087-SA5B-SB-3.0-4.0

Collected: 1/11/2011 9:08:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	26.8	J	17.9	MDL	35.9	PQL	ng/Kg	J	Z

Sample ID: SL-099-SA5B-SB-4.0-5.0

Collected: 1/11/2011 10:26:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	23.0	J	19.1	MDL	38.2	PQL	ng/Kg	J	Z

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: SL-090-SA5B-SB-2.5-3.5

Collected: 1/11/2011 1:05:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.73	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-085-SA5B-SB-3.0-4.0

Collected: 1/11/2011 11:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-086-SA5B-SB-4.0-5.0

Collected: 1/11/2011 4:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-087-SA5B-SB-3.0-4.0

Collected: 1/11/2011 9:08:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1242	45		1.1	MDL	3.7	PQL	ug/Kg	J	S
AROCLOR 1254	1.9	J	0.71	MDL	3.7	PQL	ug/Kg	J	Z, S
AROCLOR 1260	1.4	J	0.71	MDL	3.7	PQL	ug/Kg	J	Z, S
Aroclor 5432	2.2	U	2.2	MDL	7.1	PQL	ug/Kg	UJ	L
Aroclor 5442	2.2	U	2.2	MDL	7.1	PQL	ug/Kg	UJ	L
Aroclor 5460	2.3	J	2.2	MDL	7.1	PQL	ug/Kg	J	Z, S, L

Sample ID: SL-088-SA5B-SB-3.0-4.0

Collected: 1/11/2011 10:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	5.2	J	1.8	MDL	9.5	PQL	ug/Kg	J	Z
AROCLOR 1260	3.4	J	1.8	MDL	9.5	PQL	ug/Kg	J	Z
Aroclor 5432	5.6	U	5.6	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.6	U	5.6	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	5.6	U	5.6	MDL	18	PQL	ug/Kg	UJ	L

Sample ID: SL-089-SA5B-SB-4.0-5.0

Collected: 1/11/2011 2:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L

Sample ID: SL-090-SA5B-SB-2.5-3.5

Collected: 1/11/2011 1:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	0.54	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-091-SA5B-SB-4.0-5.0

Collected: 1/11/2011 3:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-091-SA5B-SB-4.0-5.0

Collected: 1/11/2011 3:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L

Sample ID: SL-093-SA5B-SB-3.0-4.0

Collected: 1/11/2011 3:26:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-094-SA5B-SB-4.0-5.0

Collected: 1/11/2011 4:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L

Sample ID: SL-099-SA5B-SB-4.0-5.0

Collected: 1/11/2011 10:26:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L

Sample ID: SL-100-SA5B-SB-4.0-5.0

Collected: 1/11/2011 9:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-088-SA5B-SB-3.0-4.0

Collected: 1/11/2011 10:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	29	J	19	MDL	370	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-087-SA5B-SB-3.0-4.0

Collected: 1/11/2011 9:08:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, L
BIS(2-ETHYLHEXYL)PHthalate	6.5	J	6.5	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	1.5	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-088-SA5B-SB-3.0-4.0

Collected: 1/11/2011 10:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.50	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	0.83	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z, L
CHRYSENE	0.63	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-089-SA5B-SB-4.0-5.0

Collected: 1/11/2011 2:04:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.43	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.65	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-090-SA5B-SB-2.5-3.5

Collected: 1/11/2011 1:05:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	8.5	J	6.6	MDL	20	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8015B

Matrix: SO

Sample ID: SL-087-SA5B-SB-3.0-4.0

Collected: 1/11/2011 9:08:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	150	J	110	MDL	540	PQL	ug/Kg	J	Z

Sample ID: SL-089-SA5B-SB-4.0-5.0

Collected: 1/11/2011 2:04:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	120	J	110	MDL	570	PQL	ug/Kg	J	Z

Sample ID: SL-090-SA5B-SB-2.5-3.5

Collected: 1/11/2011 1:05:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	130	J	110	MDL	550	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-085-SA5B-SB-3.0-4.0

Collected: 1/11/2011 11:35:00

Analysis Type: RES

Dilution: 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,3-DICHLOROPROPENE	0.17	U	0.17	MDL	4.2	PQL	ug/Kg	UJ	L
METHYLENE CHLORIDE	0.79	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
O-XYLENE	0.18	U	0.18	MDL	4.2	PQL	ug/Kg	UJ	L
TERT-BUTYLBENZENE	0.17	U	0.17	MDL	4.2	PQL	ug/Kg	UJ	L

Sample ID: SL-086-SA5B-SB-4.0-5.0

Collected: 1/11/2011 4:00:00

Analysis Type: RES

Dilution: 1.17

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,3-DICHLOROPROPENE	0.21	U	0.21	MDL	5.3	PQL	ug/Kg	UJ	L
METHYLENE CHLORIDE	1.4	J	0.32	MDL	5.3	PQL	ug/Kg	U	B
O-XYLENE	0.22	U	0.22	MDL	5.3	PQL	ug/Kg	UJ	L
TERT-BUTYLBENZENE	0.21	U	0.21	MDL	5.3	PQL	ug/Kg	UJ	L

Sample ID: SL-087-SA5B-SB-3.0-4.0

Collected: 1/11/2011 9:08:00

Analysis Type: RES

Dilution: 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,3-DICHLOROPROPENE	0.16	U	0.16	MDL	4.1	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-087-SA5B-SB-3.0-4.0

Collected: 1/11/2011 9:08:00

Analysis Type: RES

Dilution: 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.67	J	0.25	MDL	4.1	PQL	ug/Kg	U	B
O-XYLENE	0.17	U	0.17	MDL	4.1	PQL	ug/Kg	UJ	L
TERT-BUTYLBENZENE	0.16	U	0.16	MDL	4.1	PQL	ug/Kg	UJ	L

Sample ID: SL-088-SA5B-SB-3.0-4.0

Collected: 1/11/2011 10:28:00

Analysis Type: RES

Dilution: 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,3-DICHLOROPROPENE	0.16	U	0.16	MDL	4.0	PQL	ug/Kg	UJ	L
METHYLENE CHLORIDE	0.68	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
O-XYLENE	0.17	U	0.17	MDL	4.0	PQL	ug/Kg	UJ	L
TERT-BUTYLBENZENE	0.16	U	0.16	MDL	4.0	PQL	ug/Kg	UJ	L

Sample ID: SL-089-SA5B-SB-4.0-5.0

Collected: 1/11/2011 2:04:00

Analysis Type: RES

Dilution: 0.98

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,3-DICHLOROPROPENE	0.18	U	0.18	MDL	4.5	PQL	ug/Kg	UJ	L
METHYLENE CHLORIDE	0.67	J	0.27	MDL	4.5	PQL	ug/Kg	U	B
O-XYLENE	0.19	U	0.19	MDL	4.5	PQL	ug/Kg	UJ	L
TERT-BUTYLBENZENE	0.18	U	0.18	MDL	4.5	PQL	ug/Kg	UJ	L

Sample ID: SL-090-SA5B-SB-2.5-3.5

Collected: 1/11/2011 1:05:00

Analysis Type: RES

Dilution: 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,3-DICHLOROPROPENE	0.16	U	0.16	MDL	4.0	PQL	ug/Kg	UJ	L
METHYLENE CHLORIDE	0.70	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
O-XYLENE	0.17	U	0.17	MDL	4.0	PQL	ug/Kg	UJ	L
TERT-BUTYLBENZENE	0.16	U	0.16	MDL	4.0	PQL	ug/Kg	UJ	L

Sample ID: SL-091-SA5B-SB-4.0-5.0

Collected: 1/11/2011 3:15:00

Analysis Type: RES

Dilution: 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,3-DICHLOROPROPENE	0.16	U	0.16	MDL	3.9	PQL	ug/Kg	UJ	L
METHYLENE CHLORIDE	0.49	J	0.23	MDL	3.9	PQL	ug/Kg	U	B
O-XYLENE	0.17	U	0.17	MDL	3.9	PQL	ug/Kg	UJ	L
TERT-BUTYLBENZENE	0.16	U	0.16	MDL	3.9	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-093-SA5B-SB-3.0-4.0

Collected: 1/11/2011 3:26:00

Analysis Type: RES

Dilution: 1.05

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,3-DICHLOROPROPENE	0.19	U	0.19	MDL	4.6	PQL	ug/Kg	UJ	L
METHYLENE CHLORIDE	0.67	J	0.28	MDL	4.6	PQL	ug/Kg	U	B
O-XYLENE	0.20	U	0.20	MDL	4.6	PQL	ug/Kg	UJ	L
TERT-BUTYLBENZENE	0.19	U	0.19	MDL	4.6	PQL	ug/Kg	UJ	L

Sample ID: SL-094-SA5B-SB-4.0-5.0

Collected: 1/11/2011 4:28:00

Analysis Type: RES

Dilution: 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,3-DICHLOROPROPENE	0.16	U	0.16	MDL	4.0	PQL	ug/Kg	UJ	L
METHYLENE CHLORIDE	0.53	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
O-XYLENE	0.17	U	0.17	MDL	4.0	PQL	ug/Kg	UJ	L
TERT-BUTYLBENZENE	0.16	U	0.16	MDL	4.0	PQL	ug/Kg	UJ	L

Sample ID: SL-099-SA5B-SB-4.0-5.0

Collected: 1/11/2011 10:26:00

Analysis Type: RES

Dilution: 0.85

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,3-DICHLOROPROPENE	0.16	U	0.16	MDL	3.9	PQL	ug/Kg	UJ	L
METHYLENE CHLORIDE	1.2	J	0.23	MDL	3.9	PQL	ug/Kg	U	B
O-XYLENE	0.17	U	0.17	MDL	3.9	PQL	ug/Kg	UJ	L
TERT-BUTYLBENZENE	0.16	U	0.16	MDL	3.9	PQL	ug/Kg	UJ	L

Sample ID: SL-100-SA5B-SB-4.0-5.0

Collected: 1/11/2011 9:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,3-DICHLOROPROPENE	0.17	U	0.17	MDL	4.4	PQL	ug/Kg	UJ	L
METHYLENE CHLORIDE	0.74	J	0.26	MDL	4.4	PQL	ug/Kg	U	B
O-XYLENE	0.19	U	0.19	MDL	4.4	PQL	ug/Kg	UJ	L
TERT-BUTYLBENZENE	0.17	U	0.17	MDL	4.4	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

7/6/2011 11:55:16 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE057

Method Blank Outlier Report

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01708AB220525	1/18/2011 5:25:00 AM	CALCIUM IRON PHOSPHORUS TIN	10.2 mg/Kg 4.79 mg/Kg 1.38 mg/Kg 1.18 mg/Kg	SL-085-SA5B-SB-3.0-4.0 SL-086-SA5B-SB-4.0-5.0 SL-087-SA5B-SB-3.0-4.0 SL-088-SA5B-SB-3.0-4.0 SL-089-SA5B-SB-4.0-5.0 SL-090-SA5B-SB-2.5-3.5 SL-091-SA5B-SB-4.0-5.0 SL-093-SA5B-SB-3.0-4.0 SL-094-SA5B-SB-4.0-5.0 SL-099-SA5B-SB-4.0-5.0 SL-100-SA5B-SB-4.0-5.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-085-SA5B-SB-3.0-4.0(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg
SL-086-SA5B-SB-4.0-5.0(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-087-SA5B-SB-3.0-4.0(RES)	TIN	2.44 mg/Kg	2.44U mg/Kg
SL-088-SA5B-SB-3.0-4.0(RES)	TIN	2.41 mg/Kg	2.41U mg/Kg
SL-089-SA5B-SB-4.0-5.0(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-090-SA5B-SB-2.5-3.5(RES)	TIN	2.25 mg/Kg	2.25U mg/Kg
SL-091-SA5B-SB-4.0-5.0(RES)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-093-SA5B-SB-3.0-4.0(RES)	TIN	2.47 mg/Kg	2.47U mg/Kg
SL-094-SA5B-SB-4.0-5.0(RES)	TIN	3.17 mg/Kg	3.17U mg/Kg
SL-099-SA5B-SB-4.0-5.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-100-SA5B-SB-4.0-5.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg

Method: 6020 Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01726AB221301A	1/21/2011 1:01:00 PM	COPPER	0.107 mg/Kg	SL-085-SA5B-SB-3.0-4.0 SL-086-SA5B-SB-4.0-5.0 SL-087-SA5B-SB-3.0-4.0 SL-088-SA5B-SB-3.0-4.0 SL-089-SA5B-SB-4.0-5.0 SL-090-SA5B-SB-2.5-3.5 SL-091-SA5B-SB-4.0-5.0 SL-093-SA5B-SB-3.0-4.0 SL-094-SA5B-SB-4.0-5.0 SL-099-SA5B-SB-4.0-5.0 SL-100-SA5B-SB-4.0-5.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B				
Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB47B211812A	1/13/2011 6:12:00 PM	METHYLENE CHLORIDE O-XYLENE TOLUENE	0.51 ug/Kg 0.41 ug/Kg 0.24 ug/Kg	SL-085-SA5B-SB-3.0-4.0 SL-086-SA5B-SB-4.0-5.0 SL-087-SA5B-SB-3.0-4.0 SL-088-SA5B-SB-3.0-4.0 SL-089-SA5B-SB-4.0-5.0 SL-090-SA5B-SB-2.5-3.5 SL-091-SA5B-SB-4.0-5.0 SL-093-SA5B-SB-3.0-4.0 SL-094-SA5B-SB-4.0-5.0 SL-099-SA5B-SB-4.0-5.0 SL-100-SA5B-SB-4.0-5.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-085-SA5B-SB-3.0-4.0(RES)	METHYLENE CHLORIDE	0.79 ug/Kg	4.2U ug/Kg
SL-086-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.4 ug/Kg	5.3U ug/Kg
SL-087-SA5B-SB-3.0-4.0(RES)	METHYLENE CHLORIDE	0.67 ug/Kg	4.1U ug/Kg
SL-088-SA5B-SB-3.0-4.0(RES)	METHYLENE CHLORIDE	0.68 ug/Kg	4.0U ug/Kg
SL-089-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.67 ug/Kg	4.5U ug/Kg
SL-090-SA5B-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	0.70 ug/Kg	4.0U ug/Kg
SL-091-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.49 ug/Kg	3.9U ug/Kg
SL-093-SA5B-SB-3.0-4.0(RES)	METHYLENE CHLORIDE	0.67 ug/Kg	4.6U ug/Kg
SL-094-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.53 ug/Kg	4.0U ug/Kg
SL-099-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.2 ug/Kg	3.9U ug/Kg
SL-100-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.74 ug/Kg	4.4U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-099-SA5B-SB-4.0-5.0MSD (SL-085-SA5B-SB-3.0-4.0 SL-086-SA5B-SB-4.0-5.0 SL-087-SA5B-SB-3.0-4.0 SL-088-SA5B-SB-3.0-4.0 SL-089-SA5B-SB-4.0-5.0 SL-090-SA5B-SB-2.5-3.5 SL-091-SA5B-SB-4.0-5.0 SL-093-SA5B-SB-3.0-4.0 SL-094-SA5B-SB-4.0-5.0 SL-099-SA5B-SB-4.0-5.0 SL-100-SA5B-SB-4.0-5.0)	CHROMIUM VANADIUM ZINC	- - -	145 127 139	75.00-125.00 75.00-125.00 75.00-125.00	- - -	CHROMIUM VANADIUM ZINC	J (all detects)
SL-099-SA5B-SB-4.0-5.0MS SL-099-SA5B-SB-4.0-5.0MSD (SL-085-SA5B-SB-3.0-4.0 SL-086-SA5B-SB-4.0-5.0 SL-087-SA5B-SB-3.0-4.0 SL-088-SA5B-SB-3.0-4.0 SL-089-SA5B-SB-4.0-5.0 SL-090-SA5B-SB-2.5-3.5 SL-091-SA5B-SB-4.0-5.0 SL-093-SA5B-SB-3.0-4.0 SL-094-SA5B-SB-4.0-5.0 SL-099-SA5B-SB-4.0-5.0 SL-100-SA5B-SB-4.0-5.0)	ANTIMONY	37	24	75.00-125.00	25 (20.00)	ANTIMONY	J(all detects) R(all non-detects)
SL-099-SA5B-SB-4.0-5.0MS (SL-085-SA5B-SB-3.0-4.0 SL-086-SA5B-SB-4.0-5.0 SL-087-SA5B-SB-3.0-4.0 SL-088-SA5B-SB-3.0-4.0 SL-089-SA5B-SB-4.0-5.0 SL-090-SA5B-SB-2.5-3.5 SL-091-SA5B-SB-4.0-5.0 SL-093-SA5B-SB-3.0-4.0 SL-094-SA5B-SB-4.0-5.0 SL-099-SA5B-SB-4.0-5.0 SL-100-SA5B-SB-4.0-5.0)	BERYLLIUM COPPER	73 74	- -	75.00-125.00 75.00-125.00	- -	BERYLLIUM COPPER	J(all detects) UJ(all non-detects)
SL-099-SA5B-SB-4.0-5.0MS SL-099-SA5B-SB-4.0-5.0MSD (SL-085-SA5B-SB-3.0-4.0 SL-086-SA5B-SB-4.0-5.0 SL-087-SA5B-SB-3.0-4.0 SL-088-SA5B-SB-3.0-4.0 SL-089-SA5B-SB-4.0-5.0 SL-090-SA5B-SB-2.5-3.5 SL-091-SA5B-SB-4.0-5.0 SL-093-SA5B-SB-3.0-4.0 SL-094-SA5B-SB-4.0-5.0 SL-099-SA5B-SB-4.0-5.0 SL-100-SA5B-SB-4.0-5.0)	BARIUM	59	150	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-099-SA5B-SB-4.0-5.0MS SL-099-SA5B-SB-4.0-5.0MSD (SL-085-SA5B-SB-3.0-4.0 SL-086-SA5B-SB-4.0-5.0 SL-087-SA5B-SB-3.0-4.0 SL-088-SA5B-SB-3.0-4.0 SL-089-SA5B-SB-4.0-5.0 SL-090-SA5B-SB-2.5-3.5 SL-091-SA5B-SB-4.0-5.0 SL-093-SA5B-SB-3.0-4.0 SL-094-SA5B-SB-4.0-5.0 SL-099-SA5B-SB-4.0-5.0 SL-100-SA5B-SB-4.0-5.0)	ALUMINUM CALCIUM IRON TITANIUM	3461 140 491 284	4951 253 1522 378	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM CALCIUM IRON TITANIUM	No Qual, >4x
SL-099-SA5B-SB-4.0-5.0MS SL-099-SA5B-SB-4.0-5.0MSD (SL-085-SA5B-SB-3.0-4.0 SL-086-SA5B-SB-4.0-5.0 SL-087-SA5B-SB-3.0-4.0 SL-088-SA5B-SB-3.0-4.0 SL-089-SA5B-SB-4.0-5.0 SL-090-SA5B-SB-2.5-3.5 SL-091-SA5B-SB-4.0-5.0 SL-093-SA5B-SB-3.0-4.0 SL-094-SA5B-SB-4.0-5.0 SL-099-SA5B-SB-4.0-5.0 SL-100-SA5B-SB-4.0-5.0)	MAGNESIUM MANGANESE PHOSPHORUS	-65 -99 -47	276 17 -24	75.00-125.00 75.00-125.00 75.00-125.00	- 24 (20.00) -	MAGNESIUM MANGANESE PHOSPHORUS	J(all detects) R(all non-detects) P only Mg No Qual, >4x J(all detects) UJ(all non-detects) Mn No Qual %R, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-099-SA5B-SB-4.0-5.0DUP (SL-085-SA5B-SB-3.0-4.0 SL-086-SA5B-SB-4.0-5.0 SL-087-SA5B-SB-3.0-4.0 SL-088-SA5B-SB-3.0-4.0 SL-089-SA5B-SB-4.0-5.0 SL-090-SA5B-SB-2.5-3.5 SL-091-SA5B-SB-4.0-5.0 SL-093-SA5B-SB-3.0-4.0 SL-094-SA5B-SB-4.0-5.0 SL-099-SA5B-SB-4.0-5.0 SL-100-SA5B-SB-4.0-5.0)	Zirconium	59	20.00	No Qual OK by difference

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-099-SA5B-SB-4.0-5.0DUP (SL-085-SA5B-SB-3.0-4.0 SL-086-SA5B-SB-4.0-5.0 SL-087-SA5B-SB-3.0-4.0 SL-088-SA5B-SB-3.0-4.0 SL-089-SA5B-SB-4.0-5.0 SL-090-SA5B-SB-2.5-3.5 SL-091-SA5B-SB-4.0-5.0 SL-093-SA5B-SB-3.0-4.0 SL-094-SA5B-SB-4.0-5.0 SL-099-SA5B-SB-4.0-5.0 SL-100-SA5B-SB-4.0-5.0)	ANTIMONY BARIUM SELENIUM SILVER	35 27 52 21	20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Sb, Se, Ag No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P5LDLCSQ260528 (SL -085-SA5B-SB-3.0-4.0 SL -086-SA5B-SB-4.0-5.0 SL -087-SA5B-SB-3.0-4.0 SL -088-SA5B-SB-3.0-4.0 SL -089-SA5B-SB-4.0-5.0 SL -090-SA5B-SB-2.5-3.5 SL -091-SA5B-SB-4.0-5.0 SL -093-SA5B-SB-3.0-4.0 SL -094-SA5B-SB-4.0-5.0 SL -099-SA5B-SB-4.0-5.0 SL -100-SA5B-SB-4.0-5.0)	BENZO(B)FLUORANTHENE	144	-	63.00-143.00	-	BENZO(B)FLUORANTHENE	J (all detects)

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10178AQ242305A P10178AY242246A (SL -085-SA5B-SB-3.0-4.0 SL -086-SA5B-SB-4.0-5.0 SL -087-SA5B-SB-3.0-4.0 SL -088-SA5B-SB-3.0-4.0 SL -089-SA5B-SB-4.0-5.0 SL -090-SA5B-SB-2.5-3.5 SL -091-SA5B-SB-4.0-5.0 SL -093-SA5B-SB-3.0-4.0 SL -094-SA5B-SB-4.0-5.0 SL -099-SA5B-SB-4.0-5.0 SL -100-SA5B-SB-4.0-5.0)	Aroclor 5442	70	66	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Method: 8260B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSB47Y211942A (SL -085-SA5B-SB-3.0-4.0 SL -086-SA5B-SB-4.0-5.0 SL -087-SA5B-SB-3.0-4.0 SL -088-SA5B-SB-3.0-4.0 SL -089-SA5B-SB-4.0-5.0 SL -090-SA5B-SB-2.5-3.5 SL -091-SA5B-SB-4.0-5.0 SL -093-SA5B-SB-3.0-4.0 SL -094-SA5B-SB-4.0-5.0 SL -099-SA5B-SB-4.0-5.0 SL -100-SA5B-SB-4.0-5.0)	CIS-1,3-DICHLOROPROPENE O-XYLENE TERT-BUTYLBENZENE	- - -	77 78 74	80.00-120.00 80.00-120.00 75.00-120.00	- - -	CIS-1,3-DICHLOROPROPENE O-XYLENE TERT-BUTYLBENZENE	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-086-SA5B-SB- 4.0-5.0	DECACHLOROBIPHENYL	133	45.00-120.00	All Target Analytes	J (all detects)
SL-087-SA5B-SB- 3.0-4.0	DECACHLOROBIPHENYL	127	45.00-120.00	All Target Analytes	J(all detects)
SL-088-SA5B-SB- 3.0-4.0	DECACHLOROBIPHENYL	141	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-089-SA5B-SB- 4.0-5.0	DECACHLOROBIPHENYL	142	45.00-120.00	All Target Analytes	J(all detects)
SL-093-SA5B-SB- 3.0-4.0	DECACHLOROBIPHENYL	128	45.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA5B-SB-3.0-4.0	N-NITROSODIMETHYLAMINE	J	22.1	36.1	PQL	ng/Kg	J (all detects)
SL-087-SA5B-SB-3.0-4.0	N-NITROSODIMETHYLAMINE	J	26.8	35.9	PQL	ng/Kg	J (all detects)
SL-099-SA5B-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	23.0	38.2	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-087-SA5B-SB-3.0-4.0	Nitrate-NO3	J	1.1	1.6	PQL	mg/Kg	J (all detects)
SL-099-SA5B-SB-4.0-5.0	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA5B-SB-3.0-4.0	TIN Zirconium	J	2.95	10.4	PQL	mg/Kg	J (all detects)
		J	1.66	5.21	PQL	mg/Kg	
SL-086-SA5B-SB-4.0-5.0	TIN Zirconium	J	2.71	11.0	PQL	mg/Kg	J (all detects)
		J	1.24	5.50	PQL	mg/Kg	
SL-087-SA5B-SB-3.0-4.0	TIN	J	2.44	10.6	PQL	mg/Kg	J (all detects)
SL-088-SA5B-SB-3.0-4.0	BORON TIN Zirconium	J	2.53	5.58	PQL	mg/Kg	J (all detects)
		J	2.41	11.2	PQL	mg/Kg	
		J	2.01	5.58	PQL	mg/Kg	
SL-089-SA5B-SB-4.0-5.0	BORON TIN	J	5.11	5.63	PQL	mg/Kg	J (all detects)
		J	2.76	11.3	PQL	mg/Kg	
SL-090-SA5B-SB-2.5-3.5	BORON TIN Zirconium	J	2.59	5.20	PQL	mg/Kg	J (all detects)
		J	2.25	10.4	PQL	mg/Kg	
		J	1.88	5.20	PQL	mg/Kg	
SL-091-SA5B-SB-4.0-5.0	BORON TIN Zirconium	J	1.29	5.53	PQL	mg/Kg	J (all detects)
		J	2.82	11.1	PQL	mg/Kg	
		J	1.74	5.53	PQL	mg/Kg	
SL-093-SA5B-SB-3.0-4.0	TIN Zirconium	J	2.47	11.0	PQL	mg/Kg	J (all detects)
		J	1.29	5.49	PQL	mg/Kg	
SL-094-SA5B-SB-4.0-5.0	BORON TIN Zirconium	J	1.50	5.66	PQL	mg/Kg	J (all detects)
		J	3.17	11.3	PQL	mg/Kg	
		J	2.25	5.66	PQL	mg/Kg	
SL-099-SA5B-SB-4.0-5.0	BORON TIN Zirconium	J	1.14	5.45	PQL	mg/Kg	J (all detects)
		J	2.92	10.9	PQL	mg/Kg	
		J	1.17	5.45	PQL	mg/Kg	
SL-100-SA5B-SB-4.0-5.0	TIN Zirconium	J	2.69	10.7	PQL	mg/Kg	J (all detects)
		J	1.64	5.37	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA5B-SB-3.0-4.0	ANTIMONY	J	0.132	0.215	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0517	0.107	PQL	mg/Kg	
	SELENIUM	J	0.0822	0.429	PQL	mg/Kg	
	SILVER	J	0.0414	0.107	PQL	mg/Kg	
SL-086-SA5B-SB-4.0-5.0	ANTIMONY	J	0.0682	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0659	0.428	PQL	mg/Kg	
	SILVER	J	0.0482	0.107	PQL	mg/Kg	
SL-088-SA5B-SB-3.0-4.0	ANTIMONY	J	0.102	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.108	0.438	PQL	mg/Kg	
	SILVER	J	0.0297	0.109	PQL	mg/Kg	
SL-089-SA5B-SB-4.0-5.0	ANTIMONY	J	0.152	0.230	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.133	0.460	PQL	mg/Kg	
	SILVER	J	0.0481	0.115	PQL	mg/Kg	
SL-090-SA5B-SB-2.5-3.5	ANTIMONY	J	0.0784	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0848	0.429	PQL	mg/Kg	
	SILVER	J	0.0393	0.107	PQL	mg/Kg	
SL-091-SA5B-SB-4.0-5.0	ANTIMONY	J	0.181	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0586	0.442	PQL	mg/Kg	
	SILVER	J	0.0387	0.111	PQL	mg/Kg	
SL-093-SA5B-SB-3.0-4.0	ANTIMONY	J	0.138	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0627	0.423	PQL	mg/Kg	
SL-094-SA5B-SB-4.0-5.0	ANTIMONY	J	0.0843	0.220	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0666	0.440	PQL	mg/Kg	
	SILVER	J	0.0551	0.110	PQL	mg/Kg	
SL-099-SA5B-SB-4.0-5.0	CADMIUM	J	0.0485	0.112	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.140	0.449	PQL	mg/Kg	
	SILVER	J	0.0427	0.112	PQL	mg/Kg	
SL-100-SA5B-SB-4.0-5.0	ANTIMONY	J	0.165	0.213	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0560	0.106	PQL	mg/Kg	
	SELENIUM	J	0.136	0.426	PQL	mg/Kg	
	SILVER	J	0.0138	0.106	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA5B-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.97	1.1	PQL	mg/Kg	J (all detects)
SL-088-SA5B-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.37	1.1	PQL	mg/Kg	J (all detects)
SL-089-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.31	1.1	PQL	mg/Kg	J (all detects)
SL-090-SA5B-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.42	1.1	PQL	mg/Kg	J (all detects)
SL-091-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-094-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.48	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-087-SA5B-SB-3.0-4.0	METHANOL	J	150	540	PQL	ug/Kg	J (all detects)
SL-089-SA5B-SB-4.0-5.0	METHANOL	J	120	570	PQL	ug/Kg	J (all detects)
SL-090-SA5B-SB-2.5-3.5	METHANOL	J	130	550	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-090-SA5B-SB-2.5-3.5	EFH (C30-C40)	J	0.73	1.3	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-087-SA5B-SB-3.0-4.0	AROCLOR 1254	J	1.9	3.7	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.4	3.7	PQL	ug/Kg	
	Aroclor 5460	J	2.3	7.1	PQL	ug/Kg	
SL-088-SA5B-SB-3.0-4.0	AROCLOR 1254	J	5.2	9.5	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	3.4	9.5	PQL	ug/Kg	
SL-090-SA5B-SB-2.5-3.5	AROCLOR 1248	J	0.54	1.9	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA5B-SB-3.0-4.0	METHYLENE CHLORIDE	J	0.79	4.2	PQL	ug/Kg	J (all detects)
SL-086-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.4	5.3	PQL	ug/Kg	J (all detects)
SL-087-SA5B-SB-3.0-4.0	METHYLENE CHLORIDE	J	0.67	4.1	PQL	ug/Kg	J (all detects)
SL-088-SA5B-SB-3.0-4.0	METHYLENE CHLORIDE	J	0.68	4.0	PQL	ug/Kg	J (all detects)
SL-089-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.67	4.5	PQL	ug/Kg	J (all detects)
SL-090-SA5B-SB-2.5-3.5	METHYLENE CHLORIDE	J	0.70	4.0	PQL	ug/Kg	J (all detects)
SL-091-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.49	3.9	PQL	ug/Kg	J (all detects)
SL-093-SA5B-SB-3.0-4.0	METHYLENE CHLORIDE	J	0.67	4.6	PQL	ug/Kg	J (all detects)
SL-094-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.53	4.0	PQL	ug/Kg	J (all detects)
SL-099-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.2	3.9	PQL	ug/Kg	J (all detects)
SL-100-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.74	4.4	PQL	ug/Kg	J (all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE057

Laboratory: LL

EDD Filename: DE057_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-088-SA5B-SB-3.0-4.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	29	370	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-087-SA5B-SB-3.0-4.0	BENZO(A)PYRENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.5	19	PQL	ug/Kg	
	CHRYSENE	J	1.5	1.8	PQL	ug/Kg	
	PYRENE	J	1.1	1.8	PQL	ug/Kg	
SL-088-SA5B-SB-3.0-4.0	ANTHRACENE	J	0.50	1.9	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	0.83	1.9	PQL	ug/Kg	
	CHRYSENE	J	0.63	1.9	PQL	ug/Kg	
SL-089-SA5B-SB-4.0-5.0	ANTHRACENE	J	0.43	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.65	1.9	PQL	ug/Kg	
SL-090-SA5B-SB-2.5-3.5	Di-n-butylphthalate	J	8.5	20	PQL	ug/Kg	J (all detects)

LDC #: 2575014

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE057

ADR

Laboratory: Lancaster Laboratories

Date: 7/1/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	A	ICB/CCB hits - No Qual
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Mg, Mn, Ti > 4x)
VII.	Duplicate Sample Analysis	N	Dup (Sb, Se, Ag, Zr < 5x RL)
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	—	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil

1	SL-099-SA5B-SB-4.0-5.0	11	SL-093-SA5B-SB-3.0-4.0	21		31	
2	SL-100-SA5B-SB-4.0-5.0	12	(W1) MS	22		32	
3	SL-087-SA5B-SB-3.0-4.0	13	MSD	23		33	
4	SL-085-SA5B-SB-3.0-4.0	14	DUP	24		34	
5	SL-088-SA5B-SB-3.0-4.0	15		25		35	
6	SL-089-SA5B-SB-4.0-5.0	16		26		36	
7	SL-090-SA5B-SB-2.5-3.5	17		27		37	
8	SL-091-SA5B-SB-4.0-5.0	18		28		38	
9	SL-086-SA5B-SB-4.0-5.0	19		29		39	
10	SL-094-SA5B-SB-4.0-5.0	20		30		40	

Notes: _____

SAMPLE DELIVERY GROUP

DE058

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0	6182836	N	3050B	6010B	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0	6182836	N	3050B	6020	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0	6182836	N	3060A	7199	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0	6182836	N	3550B	8082	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0	6182836	N	3550B	8270C	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0	6182836	N	3550B	8270C SIM	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0	6182836	N	5035	8260B	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0	6182836	N	5035	8260B SIM	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0	6182836	N	Gen Prep	9045M	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0	6182836	N	METHOD	300.0	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0	6182836	N	METHOD	314.0	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0	6182836	N	METHOD	6850	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0	6182836	N	METHOD	7471A	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MS	6182837	MS	3050B	6010B	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MS	6182837	MS	3050B	6020	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MS	6182837	MS	3060A	7199	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MS	6182837	MS	3550B	8082	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MS	6182837	MS	3550B	8270C	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MS	6182837	MS	3550B	8270C SIM	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MS	6182837	MS	5035	8260B	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MS	6182837	MS	5035	8260B SIM	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MS	6182837	MS	METHOD	300.0	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MS	6182837	MS	METHOD	314.0	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MS	6182837	MS	METHOD	6850	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MS	6182837	MS	METHOD	7471A	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MSD	6182838	MSD	3050B	6010B	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MSD	6182838	MSD	3050B	6020	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MSD	6182838	MSD	3550B	8082	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MSD	6182838	MSD	3550B	8270C	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MSD	6182838	MSD	3550B	8270C SIM	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MSD	6182838	MSD	5035	8260B	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MSD	6182838	MSD	5035	8260B SIM	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MSD	6182838	MSD	METHOD	6850	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0MSD	6182838	MSD	METHOD	7471A	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0DUP	6182839	DUP	3050B	6010B	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0DUP	6182839	DUP	3050B	6020	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0DUP	6182839	DUP	3060A	7199	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0DUP	6182839	DUP	Gen Prep	9045M	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0DUP	6182839	DUP	METHOD	300.0	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0DUP	6182839	DUP	METHOD	314.0	III
12-Jan-2011	SL-095-SA5B-SB-4.0-5.0DUP	6182839	DUP	METHOD	7471A	III
12-Jan-2011	DUP18-SA5B-QC-011211	6182840	FD	3050B	6010B	III
12-Jan-2011	DUP18-SA5B-QC-011211	6182840	FD	3050B	6020	III
12-Jan-2011	DUP18-SA5B-QC-011211	6182840	FD	3060A	7199	III
12-Jan-2011	DUP18-SA5B-QC-011211	6182840	FD	3550B	8082	III
12-Jan-2011	DUP18-SA5B-QC-011211	6182840	FD	3550B	8270C	III
12-Jan-2011	DUP18-SA5B-QC-011211	6182840	FD	3550B	8270C SIM	III
12-Jan-2011	DUP18-SA5B-QC-011211	6182840	FD	5035	8260B	III
12-Jan-2011	DUP18-SA5B-QC-011211	6182840	FD	5035	8260B SIM	III
12-Jan-2011	DUP18-SA5B-QC-011211	6182840	FD	Gen Prep	9045M	III
12-Jan-2011	DUP18-SA5B-QC-011211	6182840	FD	METHOD	300.0	III
12-Jan-2011	DUP18-SA5B-QC-011211	6182840	FD	METHOD	314.0	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jan-2011	DUP18-SA5B-QC-011211	6182840	FD	METHOD	7471A	III
12-Jan-2011	SL-096-SA5B-SB-2.0-3.0	6182841	N	3050B	6010B	III
12-Jan-2011	SL-096-SA5B-SB-2.0-3.0	6182841	N	3050B	6020	III
12-Jan-2011	SL-096-SA5B-SB-2.0-3.0	6182841	N	3060A	7199	III
12-Jan-2011	SL-096-SA5B-SB-2.0-3.0	6182841	N	3550B	8082	III
12-Jan-2011	SL-096-SA5B-SB-2.0-3.0	6182841	N	3550B	8270C	III
12-Jan-2011	SL-096-SA5B-SB-2.0-3.0	6182841	N	3550B	8270C SIM	III
12-Jan-2011	SL-096-SA5B-SB-2.0-3.0	6182841	N	5035	8260B	III
12-Jan-2011	SL-096-SA5B-SB-2.0-3.0	6182841	N	5035	8260B SIM	III
12-Jan-2011	SL-096-SA5B-SB-2.0-3.0	6182841	N	Gen Prep	9045M	III
12-Jan-2011	SL-096-SA5B-SB-2.0-3.0	6182841	N	METHOD	300.0	III
12-Jan-2011	SL-096-SA5B-SB-2.0-3.0	6182841	N	METHOD	314.0	III
12-Jan-2011	SL-096-SA5B-SB-2.0-3.0	6182841	N	METHOD	7471A	III

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: PrepDE058_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM
Method:	300.0
Matrix:	SO

Sample ID: DUP18-SA5B-QC-011211			Collected: 1/12/2011 9:24:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.0		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-095-SA5B-SB-4.0-5.0			Collected: 1/12/2011 9:16:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.7		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-096-SA5B-SB-2.0-3.0				Collected: 1/12/2011 10:19:00		Analysis Type: RES		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Method Category:	METALS
Method:	6010B
Matrix:	SO

Sample ID: DUP18-SA5B-QC-011211		Collected: 1/12/2011 9:24:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2560		6.92	MDL	22.6	PQL	mg/Kg	J	E, FD
POTASSIUM	2350		20.3	MDL	56.5	PQL	mg/Kg	J	Q
TIN	2.52	J	1.13	MDL	11.3	PQL	mg/Kg	J	Z
Zirconium	2.53	J	0.949	MDL	5.65	PQL	mg/Kg	U	B

Sample ID: SL-095-SA5B-SB-4.0-5.0		Collected: 1/12/2011 9:16:00		Analysis Type: RES		Dilution: 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4790		6.85	MDL	22.4	PQL	mg/Kg	J	E, FD
POTASSIUM	1940		20.1	MDL	55.9	PQL	mg/Kg	J	Q
TIN	2.67	J	1.12	MDL	11.2	PQL	mg/Kg	J	Z
Zirconium	3.06	J	0.939	MDL	5.59	PQL	mg/Kg	J	Z

Sample ID: SL-096-SA5B-SB-2.0-3.0			Collected: 1/12/2011 10:19:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2140		6.55	MDL	21.4	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: PrepDE058_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-096-SA5B-SB-2.0-3.0

Collected: 1/12/2011 10:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1730		19.2	MDL	53.5	PQL	mg/Kg	J	Q
TIN	2.48	J	1.07	MDL	10.7	PQL	mg/Kg	J	Z
Zirconium	1.67	J	0.898	MDL	5.35	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP18-SA5B-QC-011211

Collected: 1/12/2011 9:24:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.107	J	0.0452	MDL	0.452	PQL	mg/Kg	J	Z

Sample ID: DUP18-SA5B-QC-011211

Collected: 1/12/2011 9:24:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0678	MDL	0.226	PQL	mg/Kg	UJ	Q, FD, B
CADMIUM	0.285		0.0452	MDL	0.113	PQL	mg/Kg	J	FD
COBALT	7.47		0.0226	MDL	0.113	PQL	mg/Kg	J	A
COPPER	9.15		0.0745	MDL	0.452	PQL	mg/Kg	J	A
SILVER	0.0488	J	0.0136	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	36.8		0.0248	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-095-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:16:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.138	J	0.0447	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-095-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:16:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.220	J	0.0671	MDL	0.224	PQL	mg/Kg	UJ	Q, FD, B
CADMIUM	0.0945	J	0.0447	MDL	0.112	PQL	mg/Kg	J	Z, FD
COBALT	6.05		0.0224	MDL	0.112	PQL	mg/Kg	J	A
COPPER	7.47		0.0738	MDL	0.447	PQL	mg/Kg	J	A
SILVER	0.0391	J	0.0134	MDL	0.112	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: PrepDE058_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-095-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:16:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	37.7		0.0246	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-096-SA5B-SB-2.0-3.0

Collected: 1/12/2011 10:19:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0995	J	0.0436	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SL-096-SA5B-SB-2.0-3.0

Collected: 1/12/2011 10:19:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.113	J	0.0654	MDL	0.218	PQL	mg/Kg	UJ	Q, B
CADMIUM	0.0674	J	0.0436	MDL	0.109	PQL	mg/Kg	J	Z
COBALT	3.93		0.0218	MDL	0.109	PQL	mg/Kg	J	A
COPPER	4.64		0.0720	MDL	0.436	PQL	mg/Kg	J	A
SILVER	0.0155	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	32.0		0.0240	MDL	0.109	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: DUP18-SA5B-QC-011211

Collected: 1/12/2011 9:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-095-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:16:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: PrepDE058_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: DUP18-SA5B-QC-011211

Collected: 1/12/2011 9:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0291	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-095-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:16:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0298	J	0.0032	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-096-SA5B-SB-2.0-3.0

Collected: 1/12/2011 10:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0089	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: DUP18-SA5B-QC-011211

Collected: 1/12/2011 9:24:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.9	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z
AROCLOR 1260	1.4	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5432	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.7	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z, L

Sample ID: SL-095-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:16:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.5	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.99	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.5	J	1.1	MDL	3.8	PQL	ug/Kg	J	Z, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: PrepDE058_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA								
Method:	8082	Matrix:	SO						

Sample ID: SL-096-SA5B-SB-2.0-3.0 Collected: 1/12/2011 10:19:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Method Category:	SVOA								
Method:	8270C SIM	Matrix:	SO						

Sample ID: DUP18-SA5B-QC-011211 Collected: 1/12/2011 9:24:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.97	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z, L, FD
CHRYSENE	0.66	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, FD

Sample ID: SL-095-SA5B-SB-4.0-5.0 Collected: 1/12/2011 9:16:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
CHRYSENE	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	FD

Method Category:	VOA								
Method:	8260B	Matrix:	SO						

Sample ID: DUP18-SA5B-QC-011211 Collected: 1/12/2011 9:24:00 Analysis Type: RES Dilution: 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	6.9	U	6.9	MDL	8.3	PQL	ug/Kg	UJ	FD
METHYLENE CHLORIDE	0.70	J	0.25	MDL	4.1	PQL	ug/Kg	J	Z
TOLUENE	0.08	U	0.08	MDL	4.1	PQL	ug/Kg	UJ	FD

Sample ID: SL-095-SA5B-SB-4.0-5.0 Collected: 1/12/2011 9:16:00 Analysis Type: RES Dilution: 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	14		6.9	MDL	8.2	PQL	ug/Kg	J	FD
METHYLENE CHLORIDE	0.59	J	0.25	MDL	4.1	PQL	ug/Kg	J	Z
TOLUENE	0.09	J	0.08	MDL	4.1	PQL	ug/Kg	UJ	B, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: PrepDE058_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-096-SA5B-SB-2.0-3.0

Collected: 1/12/2011 10:19:00

Analysis Type: RES

Dilution: 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.76	J	0.25	MDL	4.2	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: PrepDE058_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: PrepDE058_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: PrepDE058_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE058

Method Blank Outlier Report

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: DE058_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B				
Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01908AB221920	1/21/2011 7:20:00 PM	PHOSPHORUS	1.36 mg/Kg	DUP18-SA5B-QC-011211 SL-095-SA5B-SB-4.0-5.0 SL-096-SA5B-SB-2.0-3.0

Method: 8260B				
Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB48B211240A	1/14/2011 12:40:00 PM	TOLUENE	0.17 ug/Kg	DUP18-SA5B-QC-011211 SL-095-SA5B-SB-4.0-5.0 SL-096-SA5B-SB-2.0-3.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-095-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.09 ug/Kg	4.1U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: DE058_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-095-SA5B-SB-4.0-5.0MSD (SL-095-SA5B-SB-4.0-5.0)	BENZO(G,H,I)PERYLENE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE	- - -	- - -	33.00-141.00 41.00-130.00 21.00-143.00	40 (30.00) 38 (30.00) 38 (30.00)	BENZO(G,H,I)PERYLENE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE	J (all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-095-SA5B-SB-4.0-5.0MS (DUP18-SA5B-QC-011211 SL-095-SA5B-SB-4.0-5.0 SL-096-SA5B-SB-2.0-3.0)	VANADIUM	129	-	75.00-125.00	-	VANADIUM	J(all detects)
SL-095-SA5B-SB-4.0-5.0MS SL-095-SA5B-SB-4.0-5.0MSD (DUP18-SA5B-QC-011211 SL-095-SA5B-SB-4.0-5.0 SL-096-SA5B-SB-2.0-3.0)	ANTIMONY	34	33	75.00-125.00	-	ANTIMONY	J(all detects) JJ(all non-detects)
SL-095-SA5B-SB-4.0-5.0MS SL-095-SA5B-SB-4.0-5.0MSD (DUP18-SA5B-QC-011211 SL-095-SA5B-SB-4.0-5.0 SL-096-SA5B-SB-2.0-3.0)	BARIUM	174	34	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-095-SA5B-SB-4.0-5.0MS SL-095-SA5B-SB-4.0-5.0MSD (DUP18-SA5B-QC-011211 SL-095-SA5B-SB-4.0-5.0 SL-096-SA5B-SB-2.0-3.0)	ALUMINUM IRON MAGNESIUM MANGANESE POTASSIUM TITANIUM	2916 2138 292 158 135 249	2165 1901 253 - 135 241	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - -	ALUMINUM IRON MAGNESIUM MANGANESE POTASSIUM TITANIUM	J(all detects) Al, Fe, Mg, Mn, Ti No Qual, >4x
SL-095-SA5B-SB-4.0-5.0MS SL-095-SA5B-SB-4.0-5.0MSD (DUP18-SA5B-QC-011211 SL-095-SA5B-SB-4.0-5.0 SL-096-SA5B-SB-2.0-3.0)	CALCIUM	-191	-226	75.00-125.00	-	CALCIUM	No Qual, >4x

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-095-SA5B-SB-4.0-5.0MS (DUP18-SA5B-QC-011211 SL-095-SA5B-SB-4.0-5.0 SL-096-SA5B-SB-2.0-3.0)	FLUORIDE	69	-	80.00-120.00	-	FLUORIDE	J(all detects) JJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: DE058_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-095-SA5B-SB-4.0-5.0MS SL-095-SA5B-SB-4.0-5.0MSD (SL-095-SA5B-SB-4.0-5.0)	Chlorotrifluoroethylene	140	148	70.00-130.00	-	Chlorotrifluoroethylene	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: DE058_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-095-SA5B-SB-4.0-5.0DUP (DUP18-SA5B-QC-011211 SL-095-SA5B-SB-4.0-5.0 SL-096-SA5B-SB-2.0-3.0)	CALCIUM SODIUM	46 21	20.00 20.00	J (all detects) UJ (all non-detects) Na No Qual OK by difference

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-095-SA5B-SB-4.0-5.0DUP (DUP18-SA5B-QC-011211 SL-095-SA5B-SB-4.0-5.0 SL-096-SA5B-SB-2.0-3.0)	ANTIMONY SELENIUM SILVER	32 70 38	20.00 20.00 20.00	No Qual OK by difference

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-095-SA5B-SB-4.0-5.0DUP (DUP18-SA5B-QC-011211 SL-095-SA5B-SB-4.0-5.0 SL-096-SA5B-SB-2.0-3.0)	HEXAVALENT CHROMIUM	39	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: DE058_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P5LDLCSQ260528 (DUP18 -SA5B-QC-011211 SL -095-SA5B-SB-4.0-5.0 SL -096-SA5B-SB-2.0-3.0)	BENZO(B)FLUORANTHENE	144	-	63.00-143.00	-	BENZO(B)FLUORANTHENE	J (all detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P01926AQ221548A (DUP18 -SA5B-QC-011211 SL -095-SA5B-SB-4.0-5.0 SL -096-SA5B-SB-2.0-3.0)	ANTIMONY	134	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Method: 8082

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10178AQ242305A P10178AY242246A (DUP18 -SA5B-QC-011211 SL -095-SA5B-SB-4.0-5.0 SL -096-SA5B-SB-2.0-3.0)	Aroclor 5442	70	66	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: DE058_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-095-SA5B-SB-4.0-5.0	DUP18-SA5B-QC-011211			
MOISTURE	12.3	13.2	7		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-095-SA5B-SB-4.0-5.0	DUP18-SA5B-QC-011211			
FLUORIDE	4.7	4.0	16	50.00	No Qualifiers Applied

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-095-SA5B-SB-4.0-5.0	DUP18-SA5B-QC-011211			
ALUMINUM	22500	20100	11	50.00	No Qualifiers Applied
IRON	22900	21700	5	50.00	
LITHIUM	23.4	21.7	8	50.00	
MAGNESIUM	4300	4100	5	50.00	
MANGANESE	261	282	8	50.00	
PHOSPHORUS	205	220	7	50.00	
POTASSIUM	1940	2350	19	50.00	
SODIUM	215	190	12	50.00	
STRONTIUM	30.0	21.9	31	50.00	
TIN	2.67	2.52	6	50.00	
TITANIUM	1200	1150	4	50.00	
Zirconium	3.06	2.53	19	50.00	
CALCIUM	4790	2560	61	50.00	J(all detects)

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-095-SA5B-SB-4.0-5.0	DUP18-SA5B-QC-011211			
ARSENIC	5.15	4.54	13	50.00	No Qualifiers Applied
BARIUM	106	103	3	50.00	
BERYLLIUM	0.798	0.694	14	50.00	
CHROMIUM	19.8	19.5	2	50.00	
COBALT	6.05	7.47	21	50.00	
COPPER	7.47	9.15	20	50.00	
LEAD	7.04	7.04	0	50.00	
MOLYBDENUM	0.681	0.772	13	50.00	
NICKEL	12.2	13.4	9	50.00	
SELENIUM	0.138	0.107	25	50.00	
SILVER	0.0391	0.0488	22	50.00	
THALLIUM	0.256	0.278	8	50.00	
VANADIUM	37.7	36.8	2	50.00	
ZINC	48.3	54.6	12	50.00	
ANTIMONY	0.220	0.102	73	50.00	J(all detects)
CADMIUM	0.0945	0.285	100	50.00	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: DE058_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-095-SA5B-SB-4.0-5.0	DUP18-SA5B-QC-011211			
HEXAVALENT CHROMIUM	0.33	0.40	19	50.00	No Qualifiers Applied

Method: 7471A

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-095-SA5B-SB-4.0-5.0	DUP18-SA5B-QC-011211			
MERCURY	0.0298	0.0291	2	50.00	No Qualifiers Applied

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-095-SA5B-SB-4.0-5.0	DUP18-SA5B-QC-011211			
AROCOR 1248	2.3	2.6	12	50.00	No Qualifiers Applied
AROCOR 1254	1.5	1.9	24	50.00	
AROCOR 1260	0.99	1.4	34	50.00	
Aroclor 5460	1.5	1.7	12	50.00	

Method: 8260B

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-095-SA5B-SB-4.0-5.0	DUP18-SA5B-QC-011211			
METHYLENE CHLORIDE	0.59	0.70	17	50.00	No Qualifiers Applied
ACETONE	14	8.3 U	200	50.00	J(all detects)
TOLUENE	0.09	4.1 U	200	50.00	UJ(all non-detects)

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-095-SA5B-SB-4.0-5.0	DUP18-SA5B-QC-011211			
BENZO(B)FLUORANTHENE	1.9 U	0.97	200	50.00	J(all detects)
CHRYSENE	1.9 U	0.66	200	50.00	UJ(all non-detects)

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-095-SA5B-SB-4.0-5.0	DUP18-SA5B-QC-011211			
PH	8.15	8.15	0	50.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: DE058_v1

eQAPP Name: CDM_SSFL_110509

Method: ASTM D1498

Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-095-SA5B-SB-4.0- 5.0	DUP18-SA5B-QC- 011211			
Oxidation Reduction Potential	366	350	4		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: DE058_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5B-QC-011211	TIN Zirconium	J	2.52	11.3	PQL	mg/Kg	J (all detects)
		J	2.53	5.65	PQL	mg/Kg	
SL-095-SA5B-SB-4.0-5.0	TIN Zirconium	J	2.67	11.2	PQL	mg/Kg	J (all detects)
		J	3.06	5.59	PQL	mg/Kg	
SL-096-SA5B-SB-2.0-3.0	TIN Zirconium	J	2.48	10.7	PQL	mg/Kg	J (all detects)
		J	1.67	5.35	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5B-QC-011211	ANTIMONY SELENIUM SILVER	J	0.102	0.226	PQL	mg/Kg	J (all detects)
		J	0.107	0.452	PQL	mg/Kg	
		J	0.0488	0.113	PQL	mg/Kg	
SL-095-SA5B-SB-4.0-5.0	ANTIMONY CADMIUM SELENIUM SILVER	J	0.220	0.224	PQL	mg/Kg	J (all detects)
		J	0.0945	0.112	PQL	mg/Kg	
		J	0.138	0.447	PQL	mg/Kg	
		J	0.0391	0.112	PQL	mg/Kg	
SL-096-SA5B-SB-2.0-3.0	ANTIMONY CADMIUM SELENIUM SILVER	J	0.113	0.218	PQL	mg/Kg	J (all detects)
		J	0.0674	0.109	PQL	mg/Kg	
		J	0.0995	0.436	PQL	mg/Kg	
		J	0.0155	0.109	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5B-QC-011211	HEXAVALENT CHROMIUM	J	0.40	1.2	PQL	mg/Kg	J (all detects)
SL-095-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.33	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5B-QC-011211	MERCURY	J	0.0291	0.111	PQL	mg/Kg	J (all detects)
SL-095-SA5B-SB-4.0-5.0	MERCURY	J	0.0298	0.112	PQL	mg/Kg	J (all detects)
SL-096-SA5B-SB-2.0-3.0	MERCURY	J	0.0089	0.104	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE058

Laboratory: LL

EDD Filename: DE058_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5B-QC-011211	AROCLOR 1254	J	1.9	2.0	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.4	2.0	PQL	ug/Kg	
	Aroclor 5460	J	1.7	3.8	PQL	ug/Kg	
SL-095-SA5B-SB-4.0-5.0	AROCLOR 1254	J	1.5	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.99	1.9	PQL	ug/Kg	
	Aroclor 5460	J	1.5	3.8	PQL	ug/Kg	

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5B-QC-011211	METHYLENE CHLORIDE	J	0.70	4.1	PQL	ug/Kg	J (all detects)
SL-095-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.59	4.1	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.09	4.1	PQL	ug/Kg	
SL-096-SA5B-SB-2.0-3.0	METHYLENE CHLORIDE	J	0.76	4.2	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5B-QC-011211	BENZO(B)FLUORANTHENE	J	0.97	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.66	1.9	PQL	ug/Kg	

LDC #: 25750J4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE058

ADR

Laboratory: Lancaster Laboratories

Date: 7/1/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Mg, Mn, Ti, Zn < 4x)
VII.	Duplicate Sample Analysis	N	Dup (Sb, Se, Ag, Ni < 5x RL)
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/L/A (Co: 13%, Cu: 12%)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	—	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-095-SA5B-SB-4.0-5.0	11		21		31	
2	DUP18-SA5B-QC-011211	12		22		32	
3	SL-096-SA5B-SB-2.0-3.0	13		23		33	
4	SL-095-SA5B-SB-4.0-5.0MS	14		24		34	
5	SL-095-SA5B-SB-4.0-5.0MSD	15		25		35	
6	SL-095-SA5B-SB-4.0-5.0DUP	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 25750J 4

VALIDATION FINDINGS WORKSHEET

PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: 100x x MS: 2xdl

Sample Concentration units, unless otherwise noted: mg/Kg

Associated Samples: All

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

Analyte	Maximum PB* (mg/Kg)	Maximum PB* (ug/L)	Maximum ICB/CCB* (ug/L)	Action Limit										
					1	2	3							
Sb			0.33	0.33	0.22	0.10	0.11							
Zr			5.1	2.55		2.5	1.7							

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note: a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

SAMPLE DELIVERY GROUP

DE059

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jan-2011	TB-011211	6182864	TB	5030B	8015M	IV
12-Jan-2011	TB-011211	6182864	TB	5030B	8260B	IV
12-Jan-2011	TB-011211	6182864	TB	5030B	8260B SIM	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	3050B	6010B	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	3050B	6020	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	3060A	7199	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	3546	1625C	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	3550B	8015B	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	3550B	8015M	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	3550B	8082	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	3550B	8270C	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	3550B	8270C SIM	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	5035	8015M	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	5035	8260B	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	5035	8260B SIM	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	8330	8330A	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	Gen Prep	9045M	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	METHOD	300.0	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	METHOD	314.0	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	METHOD	7471A	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	METHOD	8015B	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	METHOD	8015M	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	METHOD	8315A	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0	6182850	N	METHOD	9012B	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0DUP	P182850D270918A	DUP	METHOD	314.0	IV
12-Jan-2011	SL-104-SA5B-SB-4.0-5.0MS	P182850R270941A	MS	METHOD	314.0	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	3050B	6010B	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	3050B	6020	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	3060A	7199	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	3546	1625C	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	3550B	8015B	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	3550B	8015M	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	3550B	8082	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	3550B	8270C	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	3550B	8270C SIM	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	5035	8015M	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	5035	8260B	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	5035	8260B SIM	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	8330	8330A	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	Gen Prep	9045M	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	METHOD	300.0	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	METHOD	314.0	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	METHOD	7471A	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	METHOD	8015B	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	METHOD	8015M	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	METHOD	8315A	IV
12-Jan-2011	SL-104-SA5B-SB-9.0-10.0	6182851	N	METHOD	9012B	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	3050B	6010B	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	3050B	6020	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	3060A	7199	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	3546	1625C	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	3550B	8015B	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	3550B	8015M	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	3550B	8082	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	3550B	8270C	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	3550B	8270C SIM	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	5035	8015M	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	5035	8260B	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	5035	8260B SIM	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	8330	8330A	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	Gen Prep	9045M	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	METHOD	300.0	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	METHOD	314.0	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	METHOD	7471A	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	METHOD	8015B	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	METHOD	8015M	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	METHOD	8315A	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0	6182855	N	METHOD	9012B	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	3050B	6010B	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	3050B	6020	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	3060A	7199	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	3546	1625C	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	3550B	8015B	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	3550B	8015M	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	3550B	8082	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	3550B	8270C	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	3550B	8270C SIM	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	5035	8015M	IV

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	5035	8260B	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	5035	8260B SIM	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	8330	8330A	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	METHOD	300.0	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	METHOD	314.0	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	METHOD	7471A	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	METHOD	8015B	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	METHOD	8015M	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	METHOD	8315A	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MS	6182856	MS	METHOD	9012B	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MSD	6182857	MSD	3050B	6010B	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MSD	6182857	MSD	3050B	6020	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MSD	6182857	MSD	3546	1625C	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MSD	6182857	MSD	3550B	8015B	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MSD	6182857	MSD	3550B	8015M	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MSD	6182857	MSD	3550B	8082	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MSD	6182857	MSD	3550B	8270C	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MSD	6182857	MSD	3550B	8270C SIM	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MSD	6182857	MSD	5035	8015M	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MSD	6182857	MSD	5035	8260B	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MSD	6182857	MSD	5035	8260B SIM	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MSD	6182857	MSD	8330	8330A	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MSD	6182857	MSD	METHOD	7471A	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MSD	6182857	MSD	METHOD	8015B	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MSD	6182857	MSD	METHOD	8015M	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0MSD	6182857	MSD	METHOD	8315A	IV

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N = Normal Sample
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MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0DUP	6182858	DUP	3050B	6010B	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0DUP	6182858	DUP	3050B	6020	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0DUP	6182858	DUP	3060A	7199	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0DUP	6182858	DUP	Gen Prep	9045M	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0DUP	6182858	DUP	METHOD	300.0	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0DUP	6182858	DUP	METHOD	314.0	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0DUP	6182858	DUP	METHOD	7471A	IV
12-Jan-2011	SL-092-SA5B-SB-4.0-5.0DUP	6182858	DUP	METHOD	9012B	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	3050B	6010B	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	3050B	6020	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	3060A	7199	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	3546	1625C	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	3550B	8015B	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	3550B	8015M	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	3550B	8082	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	3550B	8270C	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	3550B	8270C SIM	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	5035	8015M	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	5035	8260B	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	5035	8260B SIM	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	8330	8330A	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	Gen Prep	9045M	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	METHOD	300.0	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	METHOD	314.0	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	METHOD	7471A	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	METHOD	8015B	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	METHOD	8015M	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	METHOD	8315A	IV
12-Jan-2011	DUP17-SA5B-QC-011211	6182859	FD	METHOD	9012B	IV
12-Jan-2011	DUP17-SA5B-QC-011211DUP	P182859D291245A	DUP	Gen Prep	9045M	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	3050B	6010B	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	3050B	6020	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	3060A	7199	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	3546	1625C	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	3550B	8015B	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	3550B	8015M	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	3550B	8082	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	3550B	8270C	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	3550B	8270C SIM	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	5035	8015M	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	5035	8260B	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	5035	8260B SIM	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	8330	8330A	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	Gen Prep	9045M	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	METHOD	300.0	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	METHOD	314.0	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	METHOD	7471A	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	METHOD	8015B	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	METHOD	8015M	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	METHOD	8315A	IV
12-Jan-2011	SL-098-SA5B-SB-4.0-5.0	6182852	N	METHOD	9012B	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	3050B	6010B	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	3050B	6020	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	3060A	7199	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	3546	1625C	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	3550B	8015B	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	3550B	8015M	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	3550B	8082	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	3550B	8270C	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	3550B	8270C SIM	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	5035	8015M	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	5035	8260B	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	5035	8260B SIM	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	8330	8330A	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	Gen Prep	9045M	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	METHOD	300.0	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	METHOD	314.0	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	METHOD	7471A	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	METHOD	8015B	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	METHOD	8015M	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	METHOD	8315A	IV
12-Jan-2011	SL-103-SA5B-SB-4.0-5.0	6182853	N	METHOD	9012B	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	3050B	6010B	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	3050B	6020	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	3060A	7199	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	3546	1625C	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	3550B	8015B	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	3550B	8015M	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	3550B	8082	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	3550B	8270C	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	3550B	8270C SIM	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	5035	8015M	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	5035	8260B	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	5035	8260B SIM	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	8330	8330A	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	Gen Prep	9045M	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	METHOD	300.0	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	METHOD	314.0	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	METHOD	7471A	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	METHOD	8015B	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	METHOD	8015M	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	METHOD	8315A	IV
12-Jan-2011	SL-103-SA5B-SB-9.0-10.0	6182854	N	METHOD	9012B	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	3050B	6010B	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	3050B	6020	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	3060A	7199	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	3546	1625C	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	3550B	8015B	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	3550B	8015M	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	3550B	8082	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	3550B	8270C	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	3550B	8270C SIM	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	5035	8015M	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	5035	8260B	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	5035	8260B SIM	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	8330	8330A	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	Gen Prep	9045M	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	METHOD	300.0	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	METHOD	314.0	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	METHOD	7471A	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	METHOD	8015B	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	METHOD	8015M	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	METHOD	8315A	IV
12-Jan-2011	SL-097-SA5B-SB-4.0-5.0	6182862	N	METHOD	9012B	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	3050B	6010B	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	3050B	6020	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	3060A	7199	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	3546	1625C	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	3550B	8015B	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	3550B	8015M	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	3550B	8082	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	3550B	8270C	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	3550B	8270C SIM	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	5035	8015M	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	5035	8260B	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	5035	8260B SIM	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	8330	8330A	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	Gen Prep	9045M	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	METHOD	300.0	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	METHOD	314.0	IV

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N = Normal Sample
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MS = Matrix Spike
MSD = Matrix Spike Duplicate

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	METHOD	6850	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	METHOD	7471A	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	METHOD	8015B	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	METHOD	8015M	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	METHOD	8315A	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0	6182863	N	METHOD	9012B	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0DUP	P182863D270734B	DUP	METHOD	300.0	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0DUP	P182863D271552B	DUP	METHOD	9012B	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0MS	P182863R270746B	MS	METHOD	300.0	IV
12-Jan-2011	SL-097-SA5B-SB-7.0-8.0MS	P182863R271553B	MS	METHOD	9012B	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	3050B	6010B	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	3050B	6020	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	3060A	7199	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	3546	1625C	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	3550B	8015B	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	3550B	8015M	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	3550B	8082	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	3550B	8270C	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	3550B	8270C SIM	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	5035	8015M	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	5035	8260B	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	5035	8260B SIM	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	8330	8330A	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	Gen Prep	9045M	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	METHOD	300.0	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	METHOD	314.0	IV

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	METHOD	7471A	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	METHOD	8015B	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	METHOD	8015M	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	METHOD	8315A	IV
12-Jan-2011	SL-072-SA5B-SB-4.0-5.0	6182860	N	METHOD	9012B	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	3050B	6010B	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	3050B	6020	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	3060A	7199	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	3546	1625C	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	3550B	8015B	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	3550B	8015M	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	3550B	8082	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	3550B	8270C	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	3550B	8270C SIM	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	5035	8015M	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	5035	8260B	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	5035	8260B SIM	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	8330	8330A	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	Gen Prep	9045M	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	METHOD	300.0	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	METHOD	314.0	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	METHOD	7471A	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	METHOD	8015B	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	METHOD	8015M	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	METHOD	8315A	IV
12-Jan-2011	SL-071-SA5B-SB-2.0-3.0	6182861	N	METHOD	9012B	IV

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation

N = Normal Sample
FD = Field Duplicate

TB = Trip Blank
FB = Field Blank

MS = Matrix Spike
MSD = Matrix Spike Duplicate

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	GENCHEM
Method:	300.0
Matrix:	SO

Sample ID: SL-097-SA5B-SB-7.0-8.0 Collected: 1/12/2011 2:47:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.92	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.4	J	0.92	MDL	1.7	PQL	mg/Kg	J	Z

Method Category:	METALS
Method:	6010B
Matrix:	SO

Sample ID: DUP17-SA5B-QC-011211 Collected: 1/12/2011 10:48:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.57	J	0.970	MDL	5.45	PQL	mg/Kg	J	Z
PHOSPHORUS	295		0.610	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.31	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.68	J	0.915	MDL	5.45	PQL	mg/Kg	J	Z, FD

Sample ID: SL-071-SA5B-SB-2.0-3.0 Collected: 1/12/2011 3:49:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.75	J	0.998	MDL	5.61	PQL	mg/Kg	J	Z
PHOSPHORUS	553		0.628	MDL	11.2	PQL	mg/Kg	J	Q
TIN	3.10	J	1.12	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-072-SA5B-SB-4.0-5.0 Collected: 1/12/2011 2:58:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.74	J	0.988	MDL	5.55	PQL	mg/Kg	J	Z
PHOSPHORUS	338		0.622	MDL	11.1	PQL	mg/Kg	J	Q
TIN	3.38	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.40	J	0.933	MDL	5.55	PQL	mg/Kg	J	Z

Sample ID: SL-092-SA5B-SB-4.0-5.0 Collected: 1/12/2011 10:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.20	J	0.977	MDL	5.49	PQL	mg/Kg	J	Z
PHOSPHORUS	407		0.615	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.42	J	1.10	MDL	11.0	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-092-SA5B-SB-4.0-5.0

Collected: 1/12/2011 10:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	0.949	J	0.923	MDL	5.49	PQL	mg/Kg	J	Z, FD

Sample ID: SL-097-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:36:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.49	J	1.00	MDL	5.63	PQL	mg/Kg	J	Z
PHOSPHORUS	154		0.631	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.52	J	1.13	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	2.22	J	0.947	MDL	5.63	PQL	mg/Kg	J	Z

Sample ID: SL-097-SA5B-SB-7.0-8.0

Collected: 1/12/2011 2:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.35	J	0.998	MDL	5.61	PQL	mg/Kg	J	Z
PHOSPHORUS	78.6		0.628	MDL	11.2	PQL	mg/Kg	J	Q
SODIUM	99.3	J	41.8	MDL	112	PQL	mg/Kg	J	Z
TIN	2.37	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.93	J	0.942	MDL	5.61	PQL	mg/Kg	J	Z

Sample ID: SL-098-SA5B-SB-4.0-5.0

Collected: 1/12/2011 11:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.01	J	1.00	MDL	5.64	PQL	mg/Kg	J	Z
PHOSPHORUS	184		0.631	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.40	J	1.13	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	2.11	J	0.947	MDL	5.64	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA5B-SB-4.0-5.0

Collected: 1/12/2011 12:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	567		0.645	MDL	11.5	PQL	mg/Kg	J	Q
TIN	2.25	J	1.15	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	3.19	J	0.968	MDL	5.76	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-103-SA5B-SB-9.0-10.0

Collected: 1/12/2011 12:34:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.32	J	1.02	MDL	5.73	PQL	mg/Kg	J	Z
PHOSPHORUS	395		0.641	MDL	11.5	PQL	mg/Kg	J	Q
TIN	2.40	J	1.15	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	1.69	J	0.962	MDL	5.73	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.76	J	0.989	MDL	5.56	PQL	mg/Kg	J	Z
PHOSPHORUS	556		0.622	MDL	11.1	PQL	mg/Kg	J	Q
TIN	2.19	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.43	J	0.933	MDL	5.56	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA5B-SB-9.0-10.0

Collected: 1/12/2011 9:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.61	J	0.980	MDL	5.51	PQL	mg/Kg	J	Z
PHOSPHORUS	376		0.617	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.31	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.30	J	0.925	MDL	5.51	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP17-SA5B-QC-011211

Collected: 1/12/2011 10:48:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0449	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: DUP17-SA5B-QC-011211

Collected: 1/12/2011 10:48:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	112		0.121	MDL	0.449	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP17-SA5B-QC-011211

Collected: 1/12/2011 10:48:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	8.47		0.0733	MDL	0.444	PQL	mg/Kg	J	Q, E, A

Sample ID: DUP17-SA5B-QC-011211

Collected: 1/12/2011 10:48:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.124	J	0.0673	MDL	0.224	PQL	mg/Kg	J	Z, Q
ARSENIC	6.94		0.0898	MDL	0.449	PQL	mg/Kg	J	Q
BERYLLIUM	0.769		0.0180	MDL	0.112	PQL	mg/Kg	J	Q
CADMIUM	0.349		0.0449	MDL	0.112	PQL	mg/Kg	J	Q, FD
CHROMIUM	24.2		0.135	MDL	0.449	PQL	mg/Kg	J	Q
LEAD	7.45		0.0117	MDL	0.224	PQL	mg/Kg	J	Q, A
NICKEL	14.7		0.112	MDL	0.449	PQL	mg/Kg	J	Q
SILVER	0.0461	J	0.0135	MDL	0.112	PQL	mg/Kg	J	Z, Q, FD
VANADIUM	46.0		0.0247	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA5B-SB-2.0-3.0

Collected: 1/12/2011 3:49:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.201	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA5B-SB-2.0-3.0

Collected: 1/12/2011 3:49:00

Analysis Type: REA4

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	225		0.291	MDL	1.08	PQL	mg/Kg	J	A

Sample ID: SL-071-SA5B-SB-2.0-3.0

Collected: 1/12/2011 3:49:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	13.5		0.0725	MDL	0.440	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-071-SA5B-SB-2.0-3.0

Collected: 1/12/2011 3:49:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0934	J	0.0647	MDL	0.216	PQL	mg/Kg	J	Z, Q
ARSENIC	10.6		0.0862	MDL	0.431	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-071-SA5B-SB-2.0-3.0

Collected: 1/12/2011 3:49:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	1.50		0.0172	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.131		0.0431	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	45.9		0.129	MDL	0.431	PQL	mg/Kg	J	Q
LEAD	14.7		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, A
NICKEL	25.3		0.108	MDL	0.431	PQL	mg/Kg	J	Q
SILVER	0.0138	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
VANADIUM	78.4		0.0237	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-072-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:58:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.126	J	0.0453	MDL	0.453	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:58:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	160		0.122	MDL	0.453	PQL	mg/Kg	J	A

Sample ID: SL-072-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:58:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	19.0		0.0733	MDL	0.444	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-072-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:58:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0951	J	0.0680	MDL	0.227	PQL	mg/Kg	J	Z, Q
ARSENIC	13.3		0.0906	MDL	0.453	PQL	mg/Kg	J	Q
BERYLLIUM	1.51		0.0181	MDL	0.113	PQL	mg/Kg	J	Q
CADMIUM	0.156		0.0453	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	42.4		0.136	MDL	0.453	PQL	mg/Kg	J	Q
LEAD	12.5		0.0118	MDL	0.227	PQL	mg/Kg	J	Q, A
NICKEL	19.4		0.113	MDL	0.453	PQL	mg/Kg	J	Q
SILVER	0.525		0.0136	MDL	0.113	PQL	mg/Kg	J	Q
VANADIUM	63.3		0.0249	MDL	0.113	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-092-SA5B-SB-4.0-5.0

Collected: 1/12/2011 10:40:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.118	J	0.0452	MDL	0.452	PQL	mg/Kg	J	Z

Sample ID: SL-092-SA5B-SB-4.0-5.0

Collected: 1/12/2011 10:40:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	104		0.122	MDL	0.452	PQL	mg/Kg	J	A

Sample ID: SL-092-SA5B-SB-4.0-5.0

Collected: 1/12/2011 10:40:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	13.8		0.0725	MDL	0.439	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-092-SA5B-SB-4.0-5.0

Collected: 1/12/2011 10:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.117	J	0.0679	MDL	0.226	PQL	mg/Kg	J	Z, Q
ARSENIC	4.72		0.0905	MDL	0.452	PQL	mg/Kg	J	Q
BERYLLIUM	0.623		0.0181	MDL	0.113	PQL	mg/Kg	J	Q
CADMIUM	0.179		0.0452	MDL	0.113	PQL	mg/Kg	J	Q, FD
CHROMIUM	19.6		0.136	MDL	0.452	PQL	mg/Kg	J	Q
LEAD	5.83		0.0118	MDL	0.226	PQL	mg/Kg	J	Q, A
NICKEL	11.9		0.113	MDL	0.452	PQL	mg/Kg	J	Q
SILVER	0.0259	J	0.0136	MDL	0.113	PQL	mg/Kg	J	Z, Q, FD
VANADIUM	37.7		0.0249	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-097-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:36:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.111	J	0.0455	MDL	0.455	PQL	mg/Kg	J	Z

Sample ID: SL-097-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:36:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	141		0.123	MDL	0.455	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-097-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:36:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	6.39		0.0751	MDL	0.455	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-097-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:36:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0825	J	0.0683	MDL	0.228	PQL	mg/Kg	J	Z, Q
ARSENIC	6.52		0.0910	MDL	0.455	PQL	mg/Kg	J	Q
BERYLLIUM	1.02		0.0182	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.0793	J	0.0455	MDL	0.114	PQL	mg/Kg	J	Z, Q
CHROMIUM	25.7		0.137	MDL	0.455	PQL	mg/Kg	J	Q
LEAD	7.93		0.0118	MDL	0.228	PQL	mg/Kg	J	Q, A
NICKEL	14.9		0.114	MDL	0.455	PQL	mg/Kg	J	Q
SILVER	0.0820	J	0.0137	MDL	0.114	PQL	mg/Kg	J	Z, Q
VANADIUM	48.4		0.0250	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-097-SA5B-SB-7.0-8.0

Collected: 1/12/2011 2:47:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0860	J	0.0458	MDL	0.458	PQL	mg/Kg	J	Z

Sample ID: SL-097-SA5B-SB-7.0-8.0

Collected: 1/12/2011 2:47:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	60.7		0.124	MDL	0.458	PQL	mg/Kg	J	A

Sample ID: SL-097-SA5B-SB-7.0-8.0

Collected: 1/12/2011 2:47:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	7.59		0.0733	MDL	0.444	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-097-SA5B-SB-7.0-8.0

Collected: 1/12/2011 2:47:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0686	U	0.0686	MDL	0.229	PQL	mg/Kg	UJ	Q
ARSENIC	5.58		0.0915	MDL	0.458	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-097-SA5B-SB-7.0-8.0

Collected: 1/12/2011 2:47:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.557		0.0183	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.114	J	0.0458	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	16.7		0.137	MDL	0.458	PQL	mg/Kg	J	Q
LEAD	5.61		0.0119	MDL	0.229	PQL	mg/Kg	J	Q, A
NICKEL	9.60		0.114	MDL	0.458	PQL	mg/Kg	J	Q
SILVER	0.0378	J	0.0137	MDL	0.114	PQL	mg/Kg	J	Z, Q
VANADIUM	32.5		0.0252	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-098-SA5B-SB-4.0-5.0

Collected: 1/12/2011 11:49:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0931	J	0.0434	MDL	0.434	PQL	mg/Kg	J	Z

Sample ID: SL-098-SA5B-SB-4.0-5.0

Collected: 1/12/2011 11:49:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	181		0.117	MDL	0.434	PQL	mg/Kg	J	A

Sample ID: SL-098-SA5B-SB-4.0-5.0

Collected: 1/12/2011 11:49:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	7.70		0.0737	MDL	0.447	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-098-SA5B-SB-4.0-5.0

Collected: 1/12/2011 11:49:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0651	U	0.0651	MDL	0.217	PQL	mg/Kg	UJ	Q
ARSENIC	6.96		0.0868	MDL	0.434	PQL	mg/Kg	J	Q
BERYLLIUM	1.02		0.0174	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.114		0.0434	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	27.6		0.130	MDL	0.434	PQL	mg/Kg	J	Q
LEAD	7.87		0.0113	MDL	0.217	PQL	mg/Kg	J	Q, A
NICKEL	16.0		0.108	MDL	0.434	PQL	mg/Kg	J	Q
SILVER	0.0949	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z, Q
VANADIUM	50.3		0.0239	MDL	0.108	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-103-SA5B-SB-4.0-5.0

Collected: 1/12/2011 12:24:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.243		0.0447	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-103-SA5B-SB-4.0-5.0

Collected: 1/12/2011 12:24:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.193	J	0.0447	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA5B-SB-4.0-5.0

Collected: 1/12/2011 12:24:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	132		0.121	MDL	0.447	PQL	mg/Kg	J	A

Sample ID: SL-103-SA5B-SB-4.0-5.0

Collected: 1/12/2011 12:24:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.5		0.0745	MDL	0.452	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-103-SA5B-SB-4.0-5.0

Collected: 1/12/2011 12:24:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.197	J	0.0671	MDL	0.224	PQL	mg/Kg	J	Z, Q
ARSENIC	7.09		0.0895	MDL	0.447	PQL	mg/Kg	J	Q
BERYLLIUM	0.866		0.0179	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	31.8		0.134	MDL	0.447	PQL	mg/Kg	J	Q
LEAD	12.3		0.0116	MDL	0.224	PQL	mg/Kg	J	Q, A
NICKEL	18.4		0.112	MDL	0.447	PQL	mg/Kg	J	Q
SILVER	0.0454	J	0.0134	MDL	0.112	PQL	mg/Kg	J	Z, Q
VANADIUM	59.8		0.0246	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-103-SA5B-SB-9.0-10.0

Collected: 1/12/2011 12:34:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0436	MDL	0.436	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-103-SA5B-SB-9.0-10.0

Collected: 1/12/2011 12:34:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.118	MDL	0.436	PQL	mg/Kg	J	A

Sample ID: SL-103-SA5B-SB-9.0-10.0

Collected: 1/12/2011 12:34:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	9.38		0.0749	MDL	0.454	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-103-SA5B-SB-9.0-10.0

Collected: 1/12/2011 12:34:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0967	J	0.0655	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	6.44		0.0873	MDL	0.436	PQL	mg/Kg	J	Q
BERYLLIUM	0.727		0.0175	MDL	0.109	PQL	mg/Kg	J	Q
CADMIUM	0.572		0.0436	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	24.4		0.131	MDL	0.436	PQL	mg/Kg	J	Q
LEAD	9.93		0.0113	MDL	0.218	PQL	mg/Kg	J	Q, A
NICKEL	14.5		0.109	MDL	0.436	PQL	mg/Kg	J	Q
SILVER	0.0293	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q
VANADIUM	45.9		0.0240	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-104-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:28:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.174	J	0.0436	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:28:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	123		0.118	MDL	0.436	PQL	mg/Kg	J	A

Sample ID: SL-104-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:28:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	9.58		0.0719	MDL	0.436	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-104-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:28:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0873	J	0.0654	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	5.75		0.0871	MDL	0.436	PQL	mg/Kg	J	Q
BERYLLIUM	0.838		0.0174	MDL	0.109	PQL	mg/Kg	J	Q
CADMIUM	0.198		0.0436	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	27.2		0.131	MDL	0.436	PQL	mg/Kg	J	Q
LEAD	9.19		0.0113	MDL	0.218	PQL	mg/Kg	J	Q, A
NICKEL	16.0		0.109	MDL	0.436	PQL	mg/Kg	J	Q
SILVER	0.0521	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q
VANADIUM	50.9		0.0240	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-104-SA5B-SB-9.0-10.0

Collected: 1/12/2011 9:38:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.164	J	0.0441	MDL	0.441	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA5B-SB-9.0-10.0

Collected: 1/12/2011 9:38:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	119		0.119	MDL	0.441	PQL	mg/Kg	J	A

Sample ID: SL-104-SA5B-SB-9.0-10.0

Collected: 1/12/2011 9:38:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	8.49		0.0734	MDL	0.445	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-104-SA5B-SB-9.0-10.0

Collected: 1/12/2011 9:38:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.174	J	0.0661	MDL	0.220	PQL	mg/Kg	J	Z, Q
ARSENIC	6.73		0.0881	MDL	0.441	PQL	mg/Kg	J	Q
BERYLLIUM	0.796		0.0176	MDL	0.110	PQL	mg/Kg	J	Q
CADMIUM	0.841		0.0441	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	23.9		0.132	MDL	0.441	PQL	mg/Kg	J	Q
LEAD	11.3		0.0115	MDL	0.220	PQL	mg/Kg	J	Q, A
NICKEL	15.3		0.110	MDL	0.441	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-104-SA5B-SB-9.0-10.0

Collected: 1/12/2011 9:38:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0576	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q
VANADIUM	42.3		0.0242	MDL	0.110	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: DUP17-SA5B-QC-011211

Collected: 1/12/2011 10:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA5B-SB-2.0-3.0

Collected: 1/12/2011 3:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:58:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-092-SA5B-SB-4.0-5.0

Collected: 1/12/2011 10:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-097-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:36:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.63	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-097-SA5B-SB-7.0-8.0

Collected: 1/12/2011 2:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-098-SA5B-SB-4.0-5.0

Collected: 1/12/2011 11:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA5B-SB-4.0-5.0

Collected: 1/12/2011 12:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.39	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA5B-SB-9.0-10.0

Collected: 1/12/2011 12:34:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA5B-SB-9.0-10.0

Collected: 1/12/2011 9:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.43	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: DUP17-SA5B-QC-011211

Collected: 1/12/2011 10:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0036	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z, FD

Sample ID: SL-071-SA5B-SB-2.0-3.0

Collected: 1/12/2011 3:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0902	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-072-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:58:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0117	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-092-SA5B-SB-4.0-5.0

Collected: 1/12/2011 10:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0032	U	0.0032	MDL	0.111	PQL	mg/Kg	UJ	FD

Sample ID: SL-097-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:36:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0033	J	0.0032	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-097-SA5B-SB-7.0-8.0

Collected: 1/12/2011 2:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0032	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-098-SA5B-SB-4.0-5.0

Collected: 1/12/2011 11:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0051	J	0.0032	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA5B-SB-9.0-10.0

Collected: 1/12/2011 12:34:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0081	J	0.0032	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA5B-SB-9.0-10.0

Collected: 1/12/2011 9:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0146	J	0.0031	MDL	0.110	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA								
Method:	1625C	Matrix:	SO						

Sample ID: DUP17-SA5B-QC-011211 Collected: 1/12/2011 10:48:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	34.0	J	18.7	MDL	37.4	PQL	ng/Kg	J	Z

Sample ID: SL-071-SA5B-SB-2.0-3.0 Collected: 1/12/2011 3:49:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	32.5	J	18.7	MDL	37.4	PQL	ng/Kg	J	Z

Sample ID: SL-072-SA5B-SB-4.0-5.0 Collected: 1/12/2011 2:58:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	32.2	J	18.9	MDL	37.8	PQL	ng/Kg	J	Z

Sample ID: SL-092-SA5B-SB-4.0-5.0 Collected: 1/12/2011 10:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	30.6	J	18.9	MDL	37.7	PQL	ng/Kg	J	Z

Sample ID: SL-097-SA5B-SB-4.0-5.0 Collected: 1/12/2011 2:36:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	30.0	J	19.2	MDL	38.3	PQL	ng/Kg	J	Z

Sample ID: SL-097-SA5B-SB-7.0-8.0 Collected: 1/12/2011 2:47:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	21.9	J	19.1	MDL	38.1	PQL	ng/Kg	J	Z

Sample ID: SL-104-SA5B-SB-4.0-5.0 Collected: 1/12/2011 9:28:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	30.2	J	18.5	MDL	37.0	PQL	ng/Kg	J	Z

Sample ID: SL-104-SA5B-SB-9.0-10.0 Collected: 1/12/2011 9:38:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	24.3	J	18.7	MDL	37.5	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA		
Method:	1625C	Matrix:	SO

Method Category:	SVOA		
Method:	8015M	Matrix:	SO

Sample ID: DUP17-SA5B-QC-011211 Collected: 1/12/2011 10:48:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	6.7	U	6.7	MDL	14	PQL	mg/Kg	UJ	C
ETHYLENE GLYCOL	5.6	U	5.6	MDL	14	PQL	mg/Kg	UJ	C
Propylene glycol	5.6	U	5.6	MDL	14	PQL	mg/Kg	UJ	C

Sample ID: DUP17-SA5B-QC-011211 Collected: 1/12/2011 10:48:00 Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.45	U	0.45	MDL	1.3	PQL	mg/Kg	UJ	FD
EFH (C21-C30)	2.6		0.45	MDL	1.3	PQL	mg/Kg	J	FD
EFH (C30-C40)	4.3		0.45	MDL	1.3	PQL	mg/Kg	J	FD

Sample ID: SL-071-SA5B-SB-2.0-3.0 Collected: 1/12/2011 3:49:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.6	U	5.6	MDL	14	PQL	mg/Kg	UJ	C
ETHYLENE GLYCOL	5.6	U	5.6	MDL	14	PQL	mg/Kg	UJ	C
Propylene glycol	5.6	U	5.6	MDL	14	PQL	mg/Kg	UJ	C

Sample ID: SL-072-SA5B-SB-4.0-5.0 Collected: 1/12/2011 2:58:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	6.8	U	6.8	MDL	14	PQL	mg/Kg	UJ	C
ETHYLENE GLYCOL	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	C
Propylene glycol	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	C

Sample ID: SL-092-SA5B-SB-4.0-5.0 Collected: 1/12/2011 10:40:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	Q, C
ETHYLENE GLYCOL	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	Q, C
Propylene glycol	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	Q, C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: SL-092-SA5B-SB-4.0-5.0

Collected: 1/12/2011 10:40:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.65	J	0.45	MDL	1.4	PQL	mg/Kg	J	Z, FD
EFH (C21-C30)	7.3		0.45	MDL	1.4	PQL	mg/Kg	J	Q, Q, FD
EFH (C30-C40)	23		0.45	MDL	1.4	PQL	mg/Kg	J	FD

Sample ID: SL-097-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:36:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	C
ETHYLENE GLYCOL	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	C
Propylene glycol	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	C

Sample ID: SL-097-SA5B-SB-7.0-8.0

Collected: 1/12/2011 2:47:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	C
ETHYLENE GLYCOL	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	C
Propylene glycol	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	C

Sample ID: SL-098-SA5B-SB-4.0-5.0

Collected: 1/12/2011 11:49:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	C
Propylene glycol	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	C

Sample ID: SL-103-SA5B-SB-4.0-5.0

Collected: 1/12/2011 12:24:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.8	U	5.8	MDL	14	PQL	mg/Kg	UJ	C
Propylene glycol	5.8	U	5.8	MDL	14	PQL	mg/Kg	UJ	C

Sample ID: SL-103-SA5B-SB-9.0-10.0

Collected: 1/12/2011 12:34:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	C
ETHYLENE GLYCOL	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: SL-103-SA5B-SB-9.0-10.0

Collected: 1/12/2011 12:34:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Propylene glycol	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	C

Sample ID: SL-104-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:28:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.6	U	5.6	MDL	14	PQL	mg/Kg	UJ	C
Propylene glycol	5.6	U	5.6	MDL	14	PQL	mg/Kg	UJ	C

Sample ID: SL-104-SA5B-SB-9.0-10.0

Collected: 1/12/2011 9:38:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.6	U	5.6	MDL	14	PQL	mg/Kg	UJ	C
Propylene glycol	5.6	U	5.6	MDL	14	PQL	mg/Kg	UJ	C

Sample ID: SL-104-SA5B-SB-9.0-10.0

Collected: 1/12/2011 9:38:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.69	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: DUP17-SA5B-QC-011211

Collected: 1/12/2011 10:48:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.69	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S, FD
AROCLOR 1260	0.69	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	C

Sample ID: SL-071-SA5B-SB-2.0-3.0

Collected: 1/12/2011 3:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA
Method:	8082
Matrix:	SO

Sample ID: SL-072-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:58:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	C

Sample ID: SL-092-SA5B-SB-4.0-5.0

Collected: 1/12/2011 10:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	FD
AROCLOR 1260	0.77	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	C

Sample ID: SL-097-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:36:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	C

Sample ID: SL-097-SA5B-SB-7.0-8.0

Collected: 1/12/2011 2:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	C

Sample ID: SL-098-SA5B-SB-4.0-5.0

Collected: 1/12/2011 11:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	C

Sample ID: SL-103-SA5B-SB-4.0-5.0

Collected: 1/12/2011 12:24:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.55	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z, S, *XIII
Aroclor 5442	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	C

Sample ID: SL-103-SA5B-SB-9.0-10.0

Collected: 1/12/2011 12:34:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1242	7.5		0.57	MDL	1.9	PQL	ug/Kg	J	S
AROCLOR 1254	1.1	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, S
AROCLOR 1260	1.3	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	SVOA
Method:	8082
Matrix:	SO

Sample ID: SL-103-SA5B-SB-9.0-10.0			Collected: 1/12/2011 12:34:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	C

Sample ID: SL-104-SA5B-SB-4.0-5.0			Collected: 1/12/2011 9:28:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	C

Sample ID: SL-104-SA5B-SB-9.0-10.0			Collected: 1/12/2011 9:38:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	C

Method Category:	SVOA
Method:	8270C
Matrix:	SO

Sample ID: DUP17-SA5B-QC-011211			Collected: 1/12/2011 10:48:00		Analysis Type: RES-ACID			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	C

Sample ID: SL-071-SA5B-SB-2.0-3.0			Collected: 1/12/2011 3:49:00		Analysis Type: RES-ACID			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	C

Sample ID: SL-072-SA5B-SB-4.0-5.0			Collected: 1/12/2011 2:58:00		Analysis Type: RES-ACID			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	C

Sample ID: SL-092-SA5B-SB-4.0-5.0			Collected: 1/12/2011 10:40:00		Analysis Type: RES-ACID			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-097-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:36:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	C

Sample ID: SL-097-SA5B-SB-7.0-8.0

Collected: 1/12/2011 2:47:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	C

Sample ID: SL-098-SA5B-SB-4.0-5.0

Collected: 1/12/2011 11:49:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	C

Sample ID: SL-103-SA5B-SB-4.0-5.0

Collected: 1/12/2011 12:24:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	C

Sample ID: SL-103-SA5B-SB-9.0-10.0

Collected: 1/12/2011 12:34:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	C

Sample ID: SL-104-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:28:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	C

Sample ID: SL-104-SA5B-SB-9.0-10.0

Collected: 1/12/2011 9:38:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: DUP17-SA5B-QC-011211

Collected: 1/12/2011 10:48:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.0	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.46	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, FD
Di-n-octylphthalate	6.7	U	6.7	MDL	20	PQL	ug/Kg	UJ	FD

Sample ID: SL-092-SA5B-SB-4.0-5.0

Collected: 1/12/2011 10:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.93	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	FD
Di-n-octylphthalate	8.7	J	6.8	MDL	20	PQL	ug/Kg	UJ	B, FD

Sample ID: SL-098-SA5B-SB-4.0-5.0

Collected: 1/12/2011 11:49:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	8.6	J	6.8	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-103-SA5B-SB-4.0-5.0

Collected: 1/12/2011 12:24:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.6	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.7	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.92	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.0	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA5B-SB-9.0-10.0

Collected: 1/12/2011 12:34:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.94	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.9	J	6.9	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-104-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.2	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

7/18/2011 9:44:29 AM

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-104-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:28:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	11	J	6.7	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.90	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-octylphthalate	9.7	J	6.7	MDL	20	PQL	ug/Kg	U	B
FLUORANTHENE	0.78	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.83	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-104-SA5B-SB-9.0-10.0

Collected: 1/12/2011 9:38:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.84	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.9	J	6.7	MDL	20	PQL	ug/Kg	U	B

Method Category: VOA

Method: 8015B

Matrix: SO

Sample ID: DUP17-SA5B-QC-011211

Collected: 1/12/2011 10:48:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	140	J	110	MDL	560	PQL	ug/Kg	J	Z, FD

Sample ID: SL-071-SA5B-SB-2.0-3.0

Collected: 1/12/2011 3:49:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	150	J	110	MDL	560	PQL	ug/Kg	J	Z

Sample ID: SL-072-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:58:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	140	J	110	MDL	570	PQL	ug/Kg	J	Z

Sample ID: SL-092-SA5B-SB-4.0-5.0

Collected: 1/12/2011 10:40:00

Analysis Type: REA4

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	110	U	110	MDL	570	PQL	ug/Kg	UJ	Q
METHANOL	110	U	110	MDL	570	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category:	VOA
Method:	8015B
Matrix:	SO

Sample ID: SL-097-SA5B-SB-4.0-5.0			Collected: 1/12/2011 2:36:00		Analysis Type: REA4			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	200	J	110	MDL	570	PQL	ug/Kg	J	Z

Sample ID: SL-097-SA5B-SB-7.0-8.0			Collected: 1/12/2011 2:47:00		Analysis Type: REA4			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	200	J	110	MDL	570	PQL	ug/Kg	J	Z

Sample ID: SL-098-SA5B-SB-4.0-5.0				Collected: 1/12/2011 11:49:00		Analysis Type: REA4		Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	180	J	110	MDL	570	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA5B-SB-9.0-10.0			Collected: 1/12/2011 12:34:00		Analysis Type: REA4			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	150	J	110	MDL	570	PQL	ug/Kg	J	Z

Method Category:	VOA
Method:	8260B
Matrix:	AQ

Sample ID: TB-011211		Collected: 1/12/2011 8:00:00		Analysis Type: RES			Dilution: 1		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICHLORODIFLUOROMETHANE	2	U	2	MDL	5	PQL	ug/L	UJ	C

Method Category:	VOA
Method:	8260B
Matrix:	SO

Sample ID: DUP17-SA5B-QC-011211			Collected: 1/12/2011 10:48:00		Analysis Type: RES			Dilution: 0.9	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.6	U	1.6	MDL	8.1	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.51	U	0.51	MDL	5.1	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	1.2	J	0.24	MDL	4.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-071-SA5B-SB-2.0-3.0

Collected: 1/12/2011 3:49:00

Analysis Type: RES

Dilution: 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.7	U	1.7	MDL	8.5	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.53	U	0.53	MDL	5.3	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	1.1	J	0.26	MDL	4.3	PQL	ug/Kg	J	Z

Sample ID: SL-072-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:58:00

Analysis Type: RES

Dilution: 0.94

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.7	U	1.7	MDL	8.5	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.53	U	0.53	MDL	5.3	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	1.5	J	0.26	MDL	4.3	PQL	ug/Kg	J	Z

Sample ID: SL-092-SA5B-SB-4.0-5.0

Collected: 1/12/2011 10:40:00

Analysis Type: RES

Dilution: 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.7	U	1.7	MDL	8.6	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.54	U	0.54	MDL	5.4	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.76	J	0.26	MDL	4.3	PQL	ug/Kg	J	Z, Q

Sample ID: SL-097-SA5B-SB-4.0-5.0

Collected: 1/12/2011 2:36:00

Analysis Type: RES

Dilution: 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.7	U	1.7	MDL	8.4	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.53	U	0.53	MDL	5.3	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	1.3	J	0.25	MDL	4.2	PQL	ug/Kg	J	Z

Sample ID: SL-097-SA5B-SB-7.0-8.0

Collected: 1/12/2011 2:47:00

Analysis Type: RES

Dilution: 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.6	U	1.6	MDL	8.0	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.50	U	0.50	MDL	5.0	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.70	J	0.24	MDL	4.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B

Matrix: SO

Sample ID: SL-098-SA5B-SB-4.0-5.0

Collected: 1/12/2011 11:49:00

Analysis Type: RES

Dilution: 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.6	U	1.6	MDL	8.1	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.51	U	0.51	MDL	5.1	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.62	J	0.24	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA5B-SB-4.0-5.0

Collected: 1/12/2011 12:24:00

Analysis Type: RES

Dilution: 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.6	U	1.6	MDL	8.2	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.51	U	0.51	MDL	5.1	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.53	J	0.25	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA5B-SB-9.0-10.0

Collected: 1/12/2011 12:34:00

Analysis Type: RES

Dilution: 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.5	U	1.5	MDL	7.7	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.48	U	0.48	MDL	4.8	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.96	J	0.23	MDL	3.8	PQL	ug/Kg	J	Z

Sample ID: SL-104-SA5B-SB-4.0-5.0

Collected: 1/12/2011 9:28:00

Analysis Type: RES

Dilution: 0.98

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.7	U	1.7	MDL	8.7	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.54	U	0.54	MDL	5.4	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.68	J	0.26	MDL	4.3	PQL	ug/Kg	J	Z

Sample ID: SL-104-SA5B-SB-9.0-10.0

Collected: 1/12/2011 9:38:00

Analysis Type: RES

Dilution: 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.7	U	1.7	MDL	8.6	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.54	U	0.54	MDL	5.4	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	1.1	J	0.26	MDL	4.3	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XIII	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Data Qualifier Summary

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Enclosure I

EPA Level III ADR Outliers (including Manual Review Outliers)

Quality Control Outlier Reports

DE059

Method Blank Outlier Report

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01408CB221130	1/18/2011 11:30:00 AM	PHOSPHORUS TIN	1.46 mg/Kg 1.32 mg/Kg	DUP17-SA5B-QC-011211 SL-071-SA5B-SB-2.0-3.0 SL-072-SA5B-SB-4.0-5.0 SL-092-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP17-SA5B-QC-011211(RES)	TIN	2.31 mg/Kg	2.31U mg/Kg
SL-071-SA5B-SB-2.0-3.0(RES)	TIN	3.10 mg/Kg	3.10U mg/Kg
SL-072-SA5B-SB-4.0-5.0(RES)	TIN	3.38 mg/Kg	3.38U mg/Kg
SL-092-SA5B-SB-4.0-5.0(RES)	TIN	2.42 mg/Kg	2.42U mg/Kg
SL-097-SA5B-SB-4.0-5.0(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-097-SA5B-SB-7.0-8.0(RES)	TIN	2.37 mg/Kg	2.37U mg/Kg
SL-098-SA5B-SB-4.0-5.0(RES)	TIN	2.40 mg/Kg	2.40U mg/Kg
SL-103-SA5B-SB-4.0-5.0(RES)	TIN	2.25 mg/Kg	2.25U mg/Kg
SL-103-SA5B-SB-9.0-10.0(RES)	TIN	2.40 mg/Kg	2.40U mg/Kg
SL-104-SA5B-SB-4.0-5.0(RES)	TIN	2.19 mg/Kg	2.19U mg/Kg
SL-104-SA5B-SB-9.0-10.0(RES)	TIN	2.31 mg/Kg	2.31U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01426BB220646A	1/17/2011 6:46:00 AM	LEAD ZINC	0.0656 mg/Kg 0.854 mg/Kg	DUP17-SA5B-QC-011211 SL-071-SA5B-SB-2.0-3.0 SL-072-SA5B-SB-4.0-5.0 SL-092-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 8260B Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBKLB48B211240A	1/14/2011 12:40:00 PM	TOLUENE	0.17 ug/Kg	DUP17-SA5B-QC-011211 SL-071-SA5B-SB-2.0-3.0 SL-072-SA5B-SB-4.0-5.0 SL-092-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0

Method: 8270C SIM Matrix: SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLH01B260718	1/24/2011 7:18:00 AM	Di-n-octylphthalate	7.4 ug/Kg	DUP17-SA5B-QC-011211 SL-071-SA5B-SB-2.0-3.0 SL-072-SA5B-SB-4.0-5.0 SL-092-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-092-SA5B-SB-4.0-5.0(RES)	Di-n-octylphthalate	8.7 ug/Kg	20U ug/Kg
SL-098-SA5B-SB-4.0-5.0(RES)	Di-n-octylphthalate	8.6 ug/Kg	21U ug/Kg
SL-103-SA5B-SB-9.0-10.0(RES)	Di-n-octylphthalate	8.9 ug/Kg	21U ug/Kg
SL-104-SA5B-SB-4.0-5.0(RES)	Di-n-octylphthalate	9.7 ug/Kg	20U ug/Kg
SL-104-SA5B-SB-9.0-10.0(RES)	Di-n-octylphthalate	8.9 ug/Kg	20U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5B-SB-4.0-5.0MS SL-092-SA5B-SB-4.0-5.0MSD (DUP17-SA5B-QC-011211 SL-071-SA5B-SB-2.0-3.0 SL-072-SA5B-SB-4.0-5.0 SL-092-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0)	ARSENIC BERYLLIUM CADMIUM CHROMIUM LEAD NICKEL SILVER VANADIUM ZINC	155 - 148 133 212 - 128 139 178	180 132 127 153 155 127 126 174 192	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - -	ARSENIC BERYLLIUM CADMIUM CHROMIUM LEAD NICKEL SILVER VANADIUM ZINC	J (all detects) Zn No Qual, >4x
SL-092-SA5B-SB-4.0-5.0MS SL-092-SA5B-SB-4.0-5.0MSD (DUP17-SA5B-QC-011211 SL-071-SA5B-SB-2.0-3.0 SL-072-SA5B-SB-4.0-5.0 SL-092-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0)	ANTIMONY	33	35	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-092-SA5B-SB-4.0-5.0MS SL-092-SA5B-SB-4.0-5.0MSD (DUP17-SA5B-QC-011211 SL-071-SA5B-SB-2.0-3.0 SL-072-SA5B-SB-4.0-5.0 SL-092-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0)	BARIUM	151	203	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5B-SB-4.0-5.0MS SL-092-SA5B-SB-4.0-5.0MSD (DUP17-SA5B-QC-011211 SL-071-SA5B-SB-2.0-3.0 SL-072-SA5B-SB-4.0-5.0 SL-092-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0)	ALUMINUM TITANIUM	2003 -	2699 182	75.00-125.00 75.00-125.00	- -	ALUMINUM TITANIUM	No Qual, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5B-SB-4.0-5.0MS SL-092-SA5B-SB-4.0-5.0MSD (DUP17-SA5B-QC-011211 SL-071-SA5B-SB-2.0-3.0 SL-072-SA5B-SB-4.0-5.0 SL-092-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0)	CALCIUM IRON MAGNESIUM PHOSPHORUS	-181 -3901 -308 33	-71 -2925 -231 8	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	CALCIUM IRON MAGNESIUM PHOSPHORUS	J(all detects) UJ(all non-detects) Ca, Fe, Mg No Qual, >4x P Post Spike = 95%
SL-092-SA5B-SB-4.0-5.0MS (DUP17-SA5B-QC-011211 SL-071-SA5B-SB-2.0-3.0 SL-072-SA5B-SB-4.0-5.0 SL-092-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0)	MANGANESE	60	-	75.00-125.00	-	MANGANESE	No Qual, >4x

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5B-SB-4.0-5.0MS SL-092-SA5B-SB-4.0-5.0MSD (SL-092-SA5B-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL N-NITROSODIMETHYLAMINE	119 -	- 117	24.00-116.00 48.00-113.00	- -	4,6-DINITRO-2-METHYLPHEN N-NITROSODIMETHYLAMINE	J(all detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5B-SB-4.0-5.0MS SL-092-SA5B-SB-4.0-5.0MSD (DUP17-SA5B-QC-011211 SL-071-SA5B-SB-2.0-3.0 SL-072-SA5B-SB-4.0-5.0 SL-092-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0)	COPPER	32	35	75.00-125.00	-	COPPER	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5B-SB-4.0-5.0MSD (SL-092-SA5B-SB-4.0-5.0)	BENZO(K)FLUORANTHENE	-	145	42.00-144.00	-	BENZO(K)FLUORANTHENE	J(all detects)

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-097-SA5B-SB-7.0-8.0MS (SL-097-SA5B-SB-7.0-8.0)	FLUORIDE	62	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8015M

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5B-SB-4.0-5.0MS SL-092-SA5B-SB-4.0-5.0MSD (SL-092-SA5B-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	45 - -	- 56 56	59.00-109.00 63.00-107.00 63.00-107.00	48 (20.00) - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)
SL-092-SA5B-SB-4.0-5.0MS SL-092-SA5B-SB-4.0-5.0MSD (SL-092-SA5B-SB-4.0-5.0)	EFH (C21-C30) EFH (C30-C40)	- -35	-114 -441	49.00-123.00 49.00-123.00	68 (20.00) 72 (20.00)	EFH (C21-C30) EFH (C30-C40)	J(all detects) R(all non-detects) EFH(C30-C40) No Qual->4x

Method: 8015B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5B-SB-4.0-5.0MSD (SL-092-SA5B-SB-4.0-5.0)	METHANOL	-	-	45.00-136.00	26 (20.00)	METHANOL	J(all detects)
SL-092-SA5B-SB-4.0-5.0MSD (SL-092-SA5B-SB-4.0-5.0)	Isopropanol	-	73	75.00-125.00	-	Isopropanol	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 8250B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5B-SB-4.0-5.0MSD (SL-092-SA5B-SB-4.0-5.0)	1,1,1,2-TETRACHLOROETHANE	-	-	52.00-130.00	41 (30.00)	1,1,1,2-TETRACHLOROETHAN	J(all detects)
	1,1,1-TRICHLOROETHANE	-	-	64.00-142.00	40 (30.00)	1,1,1-TRICHLOROETHANE	
	1,1,2,2-TETRACHLOROETHANE	-	-	40.00-152.00	46 (30.00)	1,1,2,2-TETRACHLOROETHAN	
	1,1,2-TRICHLORO-1,2,2-TRIFLU	-	-	56.00-156.00	45 (30.00)	1,1,2-TRICHLORO-1,2,2-TRIFL	
	1,1,2-TRICHLOROETHANE	-	-	54.00-139.00	47 (30.00)	1,1,2-TRICHLOROETHANE	
	1,1-DICHLOROETHANE	-	-	63.00-142.00	45 (30.00)	1,1-DICHLOROETHANE	
	1,1-DICHLOROETHENE	-	-	61.00-149.00	44 (30.00)	1,1-DICHLOROETHENE	
	1,1-DICHLOROPROPENE	-	-	54.00-145.00	37 (30.00)	1,1-DICHLOROPROPENE	
	1,2,3-TRICHLOROBENZENE	-	-	10.00-140.00	49 (30.00)	1,2,3-TRICHLOROBENZENE	
	1,2,3-TRICHLOROPROPANE	-	-	45.00-154.00	47 (30.00)	1,2,3-TRICHLOROPROPANE	
	1,2,4-TRICHLOROBENZENE	-	-	10.00-136.00	45 (30.00)	1,2,4-TRICHLOROBENZENE	
	1,2-DIBROMO-3-CHLOROPROP	-	-	30.00-139.00	51 (30.00)	1,2-DIBROMO-3-CHLOROPRO	
	1,2-Dibromoethane (EDB)	-	-	54.00-129.00	44 (30.00)	1,2-Dibromoethane (EDB)	
	1,2-DICHLOROBENZENE	-	-	36.00-133.00	39 (30.00)	1,2-DICHLOROBENZENE	
	1,2-DICHLOROETHANE	-	-	68.00-131.00	44 (30.00)	1,2-DICHLOROETHANE	
	1,2-DICHLOROPROPANE	-	-	62.00-135.00	43 (30.00)	1,2-DICHLOROPROPANE	
	1,3-DICHLOROBENZENE	-	-	34.00-134.00	34 (30.00)	1,3-DICHLOROBENZENE	
	1,3-DICHLOROPROPANE	-	-	58.00-129.00	46 (30.00)	1,3-DICHLOROPROPANE	
	1,4-DICHLOROBENZENE	-	-	35.00-136.00	35 (30.00)	1,4-DICHLOROBENZENE	
	2,2-DICHLOROPROPANE	-	-	53.00-147.00	44 (30.00)	2,2-DICHLOROPROPANE	
	2-BUTANONE (MEK)	-	-	37.00-163.00	47 (30.00)	2-BUTANONE (MEK)	
	2-CHLOROETHYL VINYL ETHER	-	-	32.00-139.00	42 (30.00)	2-CHLOROETHYL VINYL ETHE	
	2-HEXANONE	-	-	32.00-160.00	48 (30.00)	2-HEXANONE	
	4-METHYL-2-PENTANONE (MIB	-	-	46.00-139.00	49 (30.00)	4-METHYL-2-PENTANONE (MI	
	ACETONE	-	-	15.00-210.00	49 (30.00)	ACETONE	
	BENZENE	-	-	55.00-143.00	40 (30.00)	BENZENE	
	BROMOBENZENE	-	-	43.00-139.00	37 (30.00)	BROMOBENZENE	
	BROMOCHLOROMETHANE	-	-	60.00-137.00	35 (30.00)	BROMOCHLOROMETHANE	
	BROMODICHLOROMETHANE	-	-	53.00-136.00	43 (30.00)	BROMODICHLOROMETHANE	
	BROMOFORM	-	-	38.00-124.00	44 (30.00)	BROMOFORM	
	BROMOMETHANE	-	-	42.00-168.00	53 (30.00)	BROMOMETHANE	
	CARBON TETRACHLORIDE	-	-	45.00-153.00	38 (30.00)	CARBON TETRACHLORIDE	
	CHLOROBENZENE	-	-	49.00-135.00	36 (30.00)	CHLOROBENZENE	
	CHLOROETHANE	-	-	39.00-152.00	52 (30.00)	CHLOROETHANE	
	CHLOROFORM	-	-	61.00-142.00	43 (30.00)	CHLOROFORM	
	CHLOROMETHANE	-	-	51.00-163.00	58 (30.00)	CHLOROMETHANE	
	Chlorotrifluoroethylene	-	140	70.00-130.00	-	Chlorotrifluoroethylene	
	CIS-1,2-DICHLOROETHENE	-	-	60.00-138.00	44 (30.00)	CIS-1,2-DICHLOROETHENE	
	CIS-1,3-DICHLOROPROPENE	-	-	51.00-131.00	43 (30.00)	CIS-1,3-DICHLOROPROPENE	
	DIBROMOCHLOROMETHANE	-	-	51.00-128.00	43 (30.00)	DIBROMOCHLOROMETHANE	
	DIBROMOMETHANE	-	-	57.00-130.00	43 (30.00)	DIBROMOMETHANE	
	DICHLORODIFLUOROMETHAN	-	-	26.00-151.00	40 (30.00)	DICHLORODIFLUOROMETHA	
	METHYL TERT-BUTYL ETHER (	-	-	55.00-129.00	49 (30.00)	METHYL TERT-BUTYL ETHER	
	METHYLENE CHLORIDE	-	-	61.00-141.00	46 (30.00)	METHYLENE CHLORIDE	
	O-XYLENE	-	-	42.00-137.00	32 (30.00)	O-XYLENE	
	STYRENE	-	-	35.00-134.00	35 (30.00)	STYRENE	
	TOLUENE	-	-	50.00-146.00	35 (30.00)	TOLUENE	
	TRANS-1,2-DICHLOROETHENE	-	-	59.00-142.00	41 (30.00)	TRANS-1,2-DICHLOROETHEN	
	TRANS-1,3-DICHLOROPROPEN	-	-	49.00-129.00	44 (30.00)	TRANS-1,3-DICHLOROPROPE	
	TRICHLOROETHENE	-	-	53.00-144.00	37 (30.00)	TRICHLOROETHENE	
	TRICHLOROFLUOROMETHANE	-	-	47.00-163.00	44 (30.00)	TRICHLOROFLUOROMETHAN	
	VINYL CHLORIDE	-	-	50.00-154.00	47 (30.00)	VINYL CHLORIDE	

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-092-SA5B-SB-4.0-5.0DUP (DUP17-SA5B-QC-011211 SL-071-SA5B-SB-2.0-3.0 SL-072-SA5B-SB-4.0-5.0 SL-092-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-4.0-5.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0)	FLUORIDE	26	20.00	No Qual OK by difference

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-092-SA5B-SB-4.0-5.0DUP (DUP17-SA5B-QC-011211 SL-071-SA5B-SB-2.0-3.0 SL-072-SA5B-SB-4.0-5.0 SL-092-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0)	Zirconium	27	20.00	No Qual OK by difference

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-092-SA5B-SB-4.0-5.0DUP (DUP17-SA5B-QC-011211 SL-071-SA5B-SB-2.0-3.0 SL-072-SA5B-SB-4.0-5.0 SL-092-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0)	COPPER SELENIUM	51 33	20.00 20.00	J(all detects) UJ(all non-detects) Se No Qual OK by difference

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P01426BQ220650A (DUP17 -SA5B-QC-011211 SL -071-SA5B-SB-2.0-3.0 SL -072-SA5B-SB-4.0-5.0 SL -092-SA5B-SB-4.0-5.0 SL -097-SA5B-SB-4.0-5.0 SL -097-SA5B-SB-7.0-8.0 SL -098-SA5B-SB-4.0-5.0 SL -103-SA5B-SB-4.0-5.0 SL -103-SA5B-SB-9.0-10.0 SL -104-SA5B-SB-4.0-5.0 SL -104-SA5B-SB-9.0-10.0)	ANTIMONY	72	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
PSLB015Q261743 (DUP17 -SA5B-QC-011211 SL -071-SA5B-SB-2.0-3.0 SL -072-SA5B-SB-4.0-5.0 SL -092-SA5B-SB-4.0-5.0 SL -097-SA5B-SB-4.0-5.0 SL -097-SA5B-SB-7.0-8.0 SL -098-SA5B-SB-4.0-5.0 SL -103-SA5B-SB-4.0-5.0 SL -103-SA5B-SB-9.0-10.0 SL -104-SA5B-SB-4.0-5.0 SL -104-SA5B-SB-9.0-10.0)	2,4-DINITROPHENOL 2-CHLORONAPHTHALENE 4,6-DINITRO-2-METHYLPHENOL N-NITROSODIMETHYLAMINE	125 156 116 109	- - - -	37.00-120.00 67.00-127.00 53.00-110.00 60.00-106.00	- - - -	2,4-DINITROPHENOL 2-CHLORONAPHTHALENE 4,6-DINITRO-2-METHYLPHENOL N-NITROSODIMETHYLAMINE	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP17-SA5B-QC-011211	DECACHLOROBIPHENYL	131	45.00-120.00	All Target Analytes	J (all detects)
SL-072-SA5B-SB-4.0-5.0	DECACHLOROBIPHENYL	124	45.00-120.00	All Target Analytes	J(all detects)
SL-092-SA5B-SB-4.0-5.0	DECACHLOROBIPHENYL	143	45.00-120.00	All Target Analytes	J(all detects)
SL-097-SA5B-SB-7.0-8.0	DECACHLOROBIPHENYL	146	45.00-120.00	All Target Analytes	J(all detects)
SL-098-SA5B-SB-4.0-5.0	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J(all detects)
SL-103-SA5B-SB-4.0-5.0	DECACHLOROBIPHENYL	126	45.00-120.00	All Target Analytes	J(all detects)
SL-103-SA5B-SB-9.0-10.0	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
MOISTURE	11.6	10.9	6		No Qualifiers Applied

Method: 1625C

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
N-NITROSODIMETHYLAMINE	30.6	34.0	9	50.00	No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
FLUORIDE	2.5	3.7	39	50.00	No Qualifiers Applied
Nitrate-NO3	5.2	5.9	13	50.00	

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
ALUMINUM	15100	17400	14	50.00	No Qualifiers Applied
BORON	2.20	2.57	16	50.00	
CALCIUM	4170	3130	28	50.00	
IRON	24100	19600	21	50.00	
LITHIUM	28.6	22.7	23	50.00	
MAGNESIUM	5190	4200	21	50.00	
MANGANESE	300	288	4	50.00	
PHOSPHORUS	407	295	32	50.00	
POTASSIUM	2870	2670	7	50.00	
SODIUM	188	192	2	50.00	
STRONTIUM	21.7	21.0	3	50.00	
TIN	2.42	2.31	5	50.00	
TITANIUM	1190	1070	11	50.00	
Zirconium	0.949	1.68	56	50.00	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
ANTIMONY	0.117	0.124	6	50.00	No Qualifiers Applied
ARSENIC	4.72	6.94	38	50.00	
BARIUM	104	112	7	50.00	
BERYLLIUM	0.623	0.769	21	50.00	
CHROMIUM	19.6	24.2	21	50.00	
COBALT	6.29	7.20	13	50.00	
COPPER	13.8	8.47	48	50.00	
LEAD	5.83	7.45	24	50.00	
MOLYBDENUM	0.471	0.598	24	50.00	
NICKEL	11.9	14.7	21	50.00	
SELENIUM	0.118	0.144	20	50.00	
THALLIUM	0.395	0.307	25	50.00	
VANADIUM	37.7	46.0	20	50.00	
ZINC	69.2	72.3	4	50.00	
CADMIUM	0.179	0.349	64	50.00	J(all detects)
SILVER	0.0259	0.0461	56	50.00	

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
HEXAVALENT CHROMIUM	0.40	0.37	8	50.00	No Qualifiers Applied

Method: 7471A

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
MERCURY	0.111 U	0.0036	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015B

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
METHANOL	570 U	140	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
EFH (C15-C20)	0.65	1.3 U	200	50.00	J(all detects) UJ(all non-detects)
EFH (C21-C30)	7.3	2.6	95	50.00	
EFH (C30-C40)	23	4.3	137	50.00	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Field Duplicate RPD Report

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
AROCLOR 1260	0.77	0.69	11	50.00	No Qualifiers Applied
AROCLOR 1254	1.9 U	0.69	200	50.00	J(all detects) UJ(all non-detects)

Method: 8260B

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
METHYLENE CHLORIDE	0.76	1.2	45	50.00	No Qualifiers Applied

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
BENZO(B)FLUORANTHENE	0.93	1.0	7	50.00	No Qualifiers Applied
CHRYSENE	1.9 U	0.46	200	50.00	J(all detects)
Di-n-octylphthalate	8.7	20 U	200	50.00	UJ(all non-detects)

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
PH	7.25	7.25	0	50.00	No Qualifiers Applied

Method: ASTM D1498

Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
Oxidation Reduction Potential	380	390	3		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5B-QC-011211	N-NITROSODIMETHYLAMINE	J	34.0	37.4	PQL	ng/Kg	J (all detects)
SL-071-SA5B-SB-2.0-3.0	N-NITROSODIMETHYLAMINE	J	32.5	37.4	PQL	ng/Kg	J (all detects)
SL-072-SA5B-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	32.2	37.8	PQL	ng/Kg	J (all detects)
SL-092-SA5B-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	30.6	37.7	PQL	ng/Kg	J (all detects)
SL-097-SA5B-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	30.0	38.3	PQL	ng/Kg	J (all detects)
SL-097-SA5B-SB-7.0-8.0	N-NITROSODIMETHYLAMINE	J	21.9	38.1	PQL	ng/Kg	J (all detects)
SL-104-SA5B-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	30.2	37.0	PQL	ng/Kg	J (all detects)
SL-104-SA5B-SB-9.0-10.0	N-NITROSODIMETHYLAMINE	J	24.3	37.5	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA5B-SB-7.0-8.0	Nitrate-NO3	J	1.4	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5B-QC-011211	BORON	J	2.57	5.45	PQL	mg/Kg	J (all detects)
	TIN	J	2.31	10.9	PQL	mg/Kg	
	Zirconium	J	1.68	5.45	PQL	mg/Kg	
SL-071-SA5B-SB-2.0-3.0	BORON	J	1.75	5.61	PQL	mg/Kg	J (all detects)
	TIN	J	3.10	11.2	PQL	mg/Kg	
SL-072-SA5B-SB-4.0-5.0	BORON	J	3.74	5.55	PQL	mg/Kg	J (all detects)
	TIN	J	3.38	11.1	PQL	mg/Kg	
	Zirconium	J	1.40	5.55	PQL	mg/Kg	
SL-092-SA5B-SB-4.0-5.0	BORON	J	2.20	5.49	PQL	mg/Kg	J (all detects)
	TIN	J	2.42	11.0	PQL	mg/Kg	
	Zirconium	J	0.949	5.49	PQL	mg/Kg	
SL-097-SA5B-SB-4.0-5.0	BORON	J	2.49	5.63	PQL	mg/Kg	J (all detects)
	TIN	J	2.52	11.3	PQL	mg/Kg	
	Zirconium	J	2.22	5.63	PQL	mg/Kg	
SL-097-SA5B-SB-7.0-8.0	BORON	J	1.35	5.61	PQL	mg/Kg	J (all detects)
	SODIUM	J	99.3	112	PQL	mg/Kg	
	TIN	J	2.37	11.2	PQL	mg/Kg	
	Zirconium	J	1.93	5.61	PQL	mg/Kg	
SL-098-SA5B-SB-4.0-5.0	BORON	J	3.01	5.64	PQL	mg/Kg	J (all detects)
	TIN	J	2.40	11.3	PQL	mg/Kg	
	Zirconium	J	2.11	5.64	PQL	mg/Kg	
SL-103-SA5B-SB-4.0-5.0	TIN	J	2.25	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.19	5.76	PQL	mg/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-103-SA5B-SB-9.0-10.0	BORON	J	2.32	5.73	PQL	mg/Kg	J (all detects)
	TIN	J	2.40	11.5	PQL	mg/Kg	
	Zirconium	J	1.69	5.73	PQL	mg/Kg	
SL-104-SA5B-SB-4.0-5.0	BORON	J	4.76	5.56	PQL	mg/Kg	J (all detects)
	TIN	J	2.19	11.1	PQL	mg/Kg	
	Zirconium	J	2.43	5.56	PQL	mg/Kg	
SL-104-SA5B-SB-9.0-10.0	BORON	J	2.61	5.51	PQL	mg/Kg	J (all detects)
	TIN	J	2.31	11.0	PQL	mg/Kg	
	Zirconium	J	1.30	5.51	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5B-QC-011211	ANTIMONY	J	0.124	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.144	0.449	PQL	mg/Kg	
	SILVER	J	0.0461	0.112	PQL	mg/Kg	
SL-071-SA5B-SB-2.0-3.0	ANTIMONY	J	0.0934	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.201	0.431	PQL	mg/Kg	
	SILVER	J	0.0138	0.108	PQL	mg/Kg	
SL-072-SA5B-SB-4.0-5.0	ANTIMONY	J	0.0951	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.126	0.453	PQL	mg/Kg	
SL-092-SA5B-SB-4.0-5.0	ANTIMONY	J	0.117	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.118	0.452	PQL	mg/Kg	
	SILVER	J	0.0259	0.113	PQL	mg/Kg	
SL-097-SA5B-SB-4.0-5.0	ANTIMONY	J	0.0825	0.228	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0793	0.114	PQL	mg/Kg	
	SELENIUM	J	0.111	0.455	PQL	mg/Kg	
	SILVER	J	0.0820	0.114	PQL	mg/Kg	
SL-097-SA5B-SB-7.0-8.0	SELENIUM	J	0.0860	0.458	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0378	0.114	PQL	mg/Kg	
SL-098-SA5B-SB-4.0-5.0	SELENIUM	J	0.0931	0.434	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0949	0.108	PQL	mg/Kg	
SL-103-SA5B-SB-4.0-5.0	ANTIMONY	J	0.197	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.193	0.447	PQL	mg/Kg	
	SILVER	J	0.0454	0.112	PQL	mg/Kg	
SL-103-SA5B-SB-9.0-10.0	ANTIMONY	J	0.0967	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.144	0.436	PQL	mg/Kg	
	SILVER	J	0.0293	0.109	PQL	mg/Kg	
SL-104-SA5B-SB-4.0-5.0	ANTIMONY	J	0.0873	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.174	0.436	PQL	mg/Kg	
	SILVER	J	0.0521	0.109	PQL	mg/Kg	
SL-104-SA5B-SB-9.0-10.0	ANTIMONY	J	0.174	0.220	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.164	0.441	PQL	mg/Kg	
	SILVER	J	0.0576	0.110	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5B-QC-011211	HEXAVALENT CHROMIUM	J	0.37	1.1	PQL	mg/Kg	J (all detects)
SL-071-SA5B-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-072-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-092-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.40	1.1	PQL	mg/Kg	J (all detects)
SL-097-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.63	1.1	PQL	mg/Kg	J (all detects)
SL-097-SA5B-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)
SL-098-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.28	1.1	PQL	mg/Kg	J (all detects)
SL-103-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.39	1.2	PQL	mg/Kg	J (all detects)
SL-103-SA5B-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.48	1.1	PQL	mg/Kg	J (all detects)
SL-104-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.40	1.1	PQL	mg/Kg	J (all detects)
SL-104-SA5B-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.43	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5B-QC-011211	MERCURY	J	0.0036	0.107	PQL	mg/Kg	J (all detects)
SL-071-SA5B-SB-2.0-3.0	MERCURY	J	0.0902	0.104	PQL	mg/Kg	J (all detects)
SL-072-SA5B-SB-4.0-5.0	MERCURY	J	0.0117	0.111	PQL	mg/Kg	J (all detects)
SL-097-SA5B-SB-4.0-5.0	MERCURY	J	0.0033	0.110	PQL	mg/Kg	J (all detects)
SL-097-SA5B-SB-7.0-8.0	MERCURY	J	0.0032	0.107	PQL	mg/Kg	J (all detects)
SL-098-SA5B-SB-4.0-5.0	MERCURY	J	0.0051	0.113	PQL	mg/Kg	J (all detects)
SL-103-SA5B-SB-9.0-10.0	MERCURY	J	0.0081	0.113	PQL	mg/Kg	J (all detects)
SL-104-SA5B-SB-9.0-10.0	MERCURY	J	0.0146	0.110	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5B-QC-011211	METHANOL	J	140	560	PQL	ug/Kg	J (all detects)
SL-071-SA5B-SB-2.0-3.0	METHANOL	J	150	560	PQL	ug/Kg	J (all detects)
SL-072-SA5B-SB-4.0-5.0	METHANOL	J	140	570	PQL	ug/Kg	J (all detects)
SL-097-SA5B-SB-4.0-5.0	METHANOL	J	200	570	PQL	ug/Kg	J (all detects)
SL-097-SA5B-SB-7.0-8.0	METHANOL	J	200	570	PQL	ug/Kg	J (all detects)
SL-098-SA5B-SB-4.0-5.0	METHANOL	J	180	570	PQL	ug/Kg	J (all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

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Reporting Limit Outliers

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-103-SA5B-SB-9.0-10.0	METHANOL	J	150	570	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-092-SA5B-SB-4.0-5.0	EFH (C15-C20)	J	0.65	1.4	PQL	mg/Kg	J (all detects)
SL-104-SA5B-SB-9.0-10.0	EFH (C15-C20)	J	0.69	1.3	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5B-QC-011211	AROCLOR 1254	J	0.69	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.69	1.9	PQL	ug/Kg	
SL-092-SA5B-SB-4.0-5.0	AROCLOR 1260	J	0.77	1.9	PQL	ug/Kg	J (all detects)
SL-103-SA5B-SB-4.0-5.0	AROCLOR 1260	J	0.55	2.0	PQL	ug/Kg	J (all detects)
SL-103-SA5B-SB-9.0-10.0	AROCLOR 1254	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.3	1.9	PQL	ug/Kg	

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5B-QC-011211	METHYLENE CHLORIDE	J	1.2	4.1	PQL	ug/Kg	J (all detects)
SL-071-SA5B-SB-2.0-3.0	METHYLENE CHLORIDE	J	1.1	4.3	PQL	ug/Kg	J (all detects)
SL-072-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.5	4.3	PQL	ug/Kg	J (all detects)
SL-092-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.76	4.3	PQL	ug/Kg	J (all detects)
SL-097-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.3	4.2	PQL	ug/Kg	J (all detects)
SL-097-SA5B-SB-7.0-8.0	METHYLENE CHLORIDE	J	0.70	4.0	PQL	ug/Kg	J (all detects)
SL-098-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.62	4.1	PQL	ug/Kg	J (all detects)
SL-103-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.53	4.1	PQL	ug/Kg	J (all detects)
SL-103-SA5B-SB-9.0-10.0	METHYLENE CHLORIDE	J	0.96	3.8	PQL	ug/Kg	J (all detects)
SL-104-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.68	4.3	PQL	ug/Kg	J (all detects)
SL-104-SA5B-SB-9.0-10.0	METHYLENE CHLORIDE	J	1.1	4.3	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE059

Laboratory: LL

EDD Filename: DE059_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5B-QC-011211	BENZO(B)FLUORANTHENE	J	1.0	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.46	1.9	PQL	ug/Kg	
SL-092-SA5B-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.93	1.9	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	8.7	20	PQL	ug/Kg	
SL-098-SA5B-SB-4.0-5.0	Di-n-octylphthalate	J	8.6	21	PQL	ug/Kg	J (all detects)
SL-103-SA5B-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.6	1.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.3	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.7	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.92	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.9	PQL	ug/Kg	
SL-103-SA5B-SB-9.0-10.0	CHRYSENE	J	0.94	1.9	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	8.9	21	PQL	ug/Kg	
SL-104-SA5B-SB-4.0-5.0	BENZO(A)PYRENE	J	1.2	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	20	PQL	ug/Kg	
	CHRYSENE	J	0.90	1.9	PQL	ug/Kg	
	Di-n-octylphthalate	J	9.7	20	PQL	ug/Kg	
	FLUORANTHENE	J	0.78	1.9	PQL	ug/Kg	
	PYRENE	J	0.83	1.9	PQL	ug/Kg	
SL-104-SA5B-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.84	1.9	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	8.9	20	PQL	ug/Kg	

Enclosure II

EPA Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: January 12, 2011

LDC Report Date: July 11, 2011

Matrix: Soil/Water

Parameters: Volatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE059

Sample Identification

SL-104-SA5B-SB-4.0-5.0
SL-104-SA5B-SB-9.0-10.0
SL-098-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-9.0-10.0
SL-092-SA5B-SB-4.0-5.0
DUP17-SA5B-QC-011211
SL-072-SA5B-SB-4.0-5.0
SL-071-SA5B-SB-2.0-3.0
SL-097-SA5B-SB-4.0-5.0
SL-097-SA5B-SB-7.0-8.0
TB-011211
SL-092-SA5B-SB-4.0-5.0MS
SL-092-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 13 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
1/14/11 (bji4c02)	Chlorotrifluoroethene	57	All soil samples in SDG DE059	J (all detects) UJ (all non-detects)	A
1/14/11 (yji4c01)	Dichlorodifluoromethane	28	TB-011211 VBLKY74	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
11/23/10	2-Hexanone	28	All soil samples in SDG DE059	J (all detects) UJ (all non-detects)	A

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
VBLKB48	1/14/11	Toluene	0.2 ug/Kg	All soil samples in SDG DE059

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks.

Sample TB-011211 was identified as a trip blank. No volatile contaminants were found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-092-SA5B-SB-4.0-5.0MS/MSD (SL-092-SA5B-SB-4.0-5.0)	Chlorotrifluoroethene	-	140 (70-130)	-	J (all detects)	A
	Dichlorodifluoromethane	-	-	40 (≤30)	J (all detects)	
	Chloromethane	-	-	58 (≤30)	J (all detects)	
	Vinyl chloride	-	-	47 (≤30)	J (all detects)	
	Bromomethane	-	-	53 (≤30)	J (all detects)	
	Chloroethane	-	-	52 (≤30)	J (all detects)	
	Trichlorofluoromethane	-	-	44 (≤30)	J (all detects)	
	1,1-Dichloroethene	-	-	44 (≤30)	J (all detects)	
	Freon-113	-	-	45 (≤30)	J (all detects)	
	Acetone	-	-	49 (≤30)	J (all detects)	
	Methylene chloride	-	-	46 (≤30)	J (all detects)	
	Methyl tertiary butyl ether	-	-	49 (≤30)	J (all detects)	
	trans-1,2-dichloroethene	-	-	41 (≤30)	J (all detects)	
	1,1-Dichloroethane	-	-	45 (≤30)	J (all detects)	
	2-Butanone	-	-	47 (≤30)	J (all detects)	
	cis-1,2-Dichloroethene	-	-	44 (≤30)	J (all detects)	
	2,2-Dichloropropane	-	-	44 (≤30)	J (all detects)	
	Bromochloromethane	-	-	35 (≤30)	J (all detects)	
	Chloroform	-	-	43 (≤30)	J (all detects)	
	1,1,1-Trichloroethane	-	-	40 (≤30)	J (all detects)	
	1,1-Dichloropropene	-	-	37 (≤30)	J (all detects)	
	Benzene	-	-	40 (≤30)	J (all detects)	
	Carbon tetrachloride	-	-	38 (≤30)	J (all detects)	
	1,2-Dichloroethane	-	-	44 (≤30)	J (all detects)	
	Trichloroethene	-	-	37 (≤30)	J (all detects)	
	1,2-Dichloropropane	-	-	43 (≤30)	J (all detects)	
	Dibromomethane	-	-	43 (≤30)	J (all detects)	
	Bromodichloromethane	-	-	43 (≤30)	J (all detects)	
	2-Chloroethyl vinyl ether	-	-	42 (≤30)	J (all detects)	
	cis-1,3-Dichloropropene	-	-	43 (≤30)	J (all detects)	
	4-Methyl-2-pentanone	-	-	49 (≤30)	J (all detects)	
	Toluene	-	-	35 (≤30)	J (all detects)	
	trans-1,3-Dichloropropene	-	-	44 (≤30)	J (all detects)	
	1,1,2-Trichloroethane	-	-	47 (≤30)	J (all detects)	
	1,3-Dichloropropane	-	-	46 (≤30)	J (all detects)	
	2-Hexanone	-	-	48 (≤30)	J (all detects)	
	Dibromochloromethane	-	-	43 (≤30)	J (all detects)	
	1,2-Dibromoethane	-	-	44 (≤30)	J (all detects)	
	Chlorobenzene	-	-	36 (≤30)	J (all detects)	
	1,1,1,2-Tetrachloroethane	-	-	41 (≤30)	J (all detects)	
	o-Xylene	-	-	32 (≤30)	J (all detects)	
	Styrene	-	-	35 (≤30)	J (all detects)	
	Bromoform	-	-	44 (≤30)	J (all detects)	
	1,1,2,2-Tetrachloroethane	-	-	46 (≤30)	J (all detects)	
	Bromobenzene	-	-	37 (≤30)	J (all detects)	
	1,2,3-Trichloropropane	-	-	47 (≤30)	J (all detects)	
	1,3-Dichlorobenzene	-	-	34 (≤30)	J (all detects)	
	1,4-Dichlorobenzene	-	-	35 (≤30)	J (all detects)	
	1,2-Dichlorobenzene	-	-	39 (≤30)	J (all detects)	
	1,2-Dibromo-3-chloropropane	-	-	51 (≤30)	J (all detects)	
	1,2,4-Trichlorobenzene	-	-	45 (≤30)	J (all detects)	
	1,2,3-Trichlorobenzene	-	-	49 (≤30)	J (all detects)	

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE059	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples SL-092-SA5B-SB-4.0-5.0 and DUP17-SA5B-QC-011211 were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
Methylene chloride	0.75	1.2	46 (≤50)	-	-

Santa Susana Field Laboratory
Volatiles - Data Qualification Summary - SDG DE059

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	Chlorotrifluoroethene	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE059	TB-011211	Dichlorodifluoromethane	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	2-Hexanone	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE059	SL-092-SA5B-SB-4.0-5.0	Chlorotrifluoroethene	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)

Santa Susana Field Laboratory
Volatiles - Laboratory Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Volatiles - Field Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

LDC #: 25750K1a **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE059

Level IV

Laboratory: Lancaster Laboratories

Date: 7/08/11

Page: 1 of 1

Reviewer: JVL

2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/12/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	% RSD $\leq 30\%$ ✓
IV.	Continuing calibration/ICV	SW	OCV/ICV $\leq 25\%$
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCs 1/1
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 6, 7
XVII.	Field blanks	ND	TB = 12 ✓

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil + Water

1	SL-104-SA5B-SB-4.0-5.0	S	11	SL-097-SA5B-SB-7.0-8.0	S	21	VBKBF8	31	
2	SL-104-SA5B-SB-9.0-10.0		12	TB-011211	W	22	VBK Y74	32	
3	SL-098-SA5B-SB-4.0-5.0		13	SL-092-SA5B-SB-4.0-5.0MS	S	23		33	
4	SL-103-SA5B-SB-4.0-5.0		14	SL-092-SA5B-SB-4.0-5.0MSD	V	24		34	
5	SL-103-SA5B-SB-9.0-10.0		15			25		35	
6	SL-092-SA5B-SB-4.0-5.0	p	16			26		36	
7	DUP17-SA5B-QC-011211	p	17			27		37	
8	SL-072-SA5B-SB-4.0-5.0		18			28		38	
9	SL-071-SA5B-SB-2.0-3.0		19			29		39	
10	SL-097-SA5B-SB-4.0-5.0	✓	20			30		40	

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Was a curve fit used for evaluation?	/			
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	/			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	/			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Were all percent differences (%D) < 25% and relative response factors (RRF) > 0.05?		/		
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/			
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	/			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			/	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		/		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?				

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		/	/	
Were the performance evaluation (PE) samples within the acceptance limits?			/	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	/			
Were retention times within + 30 seconds of the associated calibration standard?	/			
XI. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	/			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	/			
Were chromatogram peaks verified and accounted for?	/			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	/			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			/	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?			/	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?		/		
XIV. System performance				
System performance was found to be acceptable.	/			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target compounds were detected in the field duplicates.	/			
XVII. Field blanks				
Field blanks were identified in this SDG.	/	/		
Target compounds were detected in the field blanks.		/		

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl chloride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN. Chlorotrifluoroethene
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Diisopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBB. tert-Amyl methyl ether	VVV.

* = System performance check compounds (SPCC) for RRF; ** = Calibration check compounds (CCC) for %RSD.

VALIDATION FINDINGS WORKSHEET

Continuing Calibration

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?

Y	N	N/A	Were all %D and RRFs within the validation criteria of $\leq 25\%$ D and ≥ 0.05 RRF?
Y	N	N/A	

[illegible]

Blanks

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

$$\frac{Y}{N} \frac{N}{N/A}$$

Was a method blank associated with every sample in this SDG?

Y/N	N/A	Was a method blank analyzed at least once every 12 hours for each matrix and concentration?

Was there contamination in the method blanks? If yes, please see the qualifications below.

☒ N ☐ N/A

Blank analysis date: 1/14/11

Conc. units: w_b / kg

Associated Samples: All soils (ND)

[illegible]

Blank analysis date:

Conc. units:

Associated Samples:

Prepared Samples							
Compound	Blank ID	Sample Identification					
Methylene chloride							
Acetone							
CROI							

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".



Quality Control Summary
Matrix Spike/Matrix Spike Duplicate

SDG: DE059
Matrix: SOLID

GC/MS Volatiles
Fraction: Volatiles by GC/MS

UNSPK: 6182855 MS: 6182856 MSD: 6182857 Analyte	Batch: B110141BA (Sample number(s): 6182850-6182857, 6182859-6182863)								
	Spike Added ug/kg	Unspiked Conc ug/kg	MS Conc ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	%Rec Limits	%RPD	%RPD Limits
Chlorotrifluoroethene	17.33	N.D.	22.1	22.42	128	140 *	70-130	1	30
Dichlorodifluoromethane	16.34	N.D.	12.92	19.36	79	78	26-151	40 *	30
Chloromethane	16.34	N.D.	12.68	22.96	78	92	51-163	58 *	30
Vinyl Chloride	16.34	N.D.	13.13	21.18	80	85	50-154	47 *	30
Freon 133a	17.33	N.D.	16.62	15.79	96	99	70-130	5	30
Bromomethane	16.34	N.D.	11.22	19.23	69	77	42-168	53 *	30
Chloroethane	16.34	N.D.	11.49	19.59	70	79	39-152	52 *	30
Trichlorofluoromethane	16.34	N.D.	14.73	22.99	90	92	47-163	44 *	30
1,1-Dichloroethene	16.34	N.D.	16.71	26.17	102	105	61-149	44 *	30
Freon 113	16.34	N.D.	17.35	27.51	106	111	56-156	45 *	30
Acetone	122.55	N.D.	193.24	317.45	158	170	15-210	49 *	30
Methylene Chloride	16.34	.67	15.46	24.74	90	97	61-141	46 *	30
Methyl Tertiary Butyl Ether	16.34	N.D.	14.04	23.08	86	93	55-129	49 *	30
trans-1,2-Dichloroethene	16.34	N.D.	16.46	25.05	101	101	59-142	41 *	30
1,1-Dichloroethane	16.34	N.D.	15.85	24.95	97	100	63-142	45 *	30
2-Butanone	122.55	N.D.	129.15	209.36	105	112	37-163	47 *	30
cis-1,2-Dichloroethene	16.34	N.D.	16.17	25.32	99	102	60-136	44 *	30
2,2-Dichloropropane	16.34	N.D.	15.96	25.1	98	101	53-147	44 *	30
Bromochloromethane	16.34	N.D.	16.95	24.26	104	98	60-137	35 *	30
Chloroform	16.34	N.D.	16.3	25.12	100	101	61-142	43 *	30
1,1,1-Trichloroethane	16.34	N.D.	16.33	24.5	100	98	64-142	40 *	30
1,1-Dichloropropene	16.34	N.D.	14.74	21.43	90	86	54-145	37 *	30
Benzene	16.34	N.D.	15.68	23.59	96	95	55-143	40 *	30
Carbon Tetrachloride	16.34	N.D.	16.51	24.35	101	98	45-153	38 *	30
1,2-Dichloroethane	16.34	N.D.	15.35	24.05	94	97	68-131	44 *	30
Trichloroethene	16.34	N.D.	14.4	21.02	88	84	53-144	37 *	30
1,2-Dichloropropane	16.34	N.D.	14.84	22.89	91	92	62-135	43 *	30
Dibromomethane	16.34	N.D.	15.18	23.58	93	95	57-130	43 *	30
Bromodichloromethane	16.34	N.D.	14.71	22.8	90	92	53-136	43 *	30
2-Chloroethyl Vinyl Ether	16.34	N.D.	11.86	18.26	73	73	32-139	42 *	30
cis-1,3-Dichloropropene	16.34	N.D.	12.48	19.26	76	77	51-131	43 *	30
4-Methyl-2-pentanone	81.7	N.D.	46.03	75.64	56	61	46-139	49 *	30
Toluene	16.34	N.D.	14.51	20.73	89	83	50-146	35 *	30
trans-1,3-Dichloropropene	16.34	N.D.	12.55	19.67	77	79	49-129	44 *	30
1,1,2-Trichloroethane	16.34	N.D.	15.06	24.24	92	97	54-139	47 *	30
Tetrachloroethene	16.34	N.D.	14.78	19.85	90	80	42-149	29	30
1,3-Dichloropropane	16.34	N.D.	13.96	22.2	85	89	58-129	46 *	30
2-Hexanone	81.7	N.D.	53.89	87.73	66	71	32-160	48 *	30
Dibromochloromethane	16.34	N.D.	15.18	23.62	93	95	51-128	43 *	30
1,2-Dibromoethane	16.34	N.D.	14.47	22.56	89	91	54-129	44 *	30
Chlorobenzene	16.34	N.D.	13.6	19.55	83	79	49-135	36 *	30
1,1,1,2-Tetrachloroethane	16.34	N.D.	14.97	22.72	92	91	52-130	41 *	30

JLL/A
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Results are being reported on an as received basis.



Quality Control Summary
Matrix Spike/Matrix Spike Duplicate

SDG: DE059
Matrix: SOLID

GC/MS Volatiles
Fraction: Volatiles by GC/MS

UNSPK: 6182855 MS: 6182856 MSD: 6182857 Analyte	Batch: B110141BA (Sample number(s): 6182850-6182857, 6182859-6182863)								
	Spike Added ug/kg	Unspiked Conc ug/kg	MS Conc ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	%Rec Limits	%RPD	%RPD Limits
Ethylbenzene	16.34	N.D.	11.94	16.	73	64	44-141	29	30
m+p-Xylene	32.68	N.D.	24.88	33.58	76	68	44-137	30	30
o-Xylene	16.34	N.D.	11.38	15.69	70	63	42-137	32 *	30
Styrene	16.34	N.D.	12.39	17.7	76	71	35-134	35 *	30
Bromoform	16.34	N.D.	14.49	22.74	89	91	38-124	44 *	30
Isopropylbenzene	16.34	N.D.	10.44	13.22	64	53	38-144	23	30
1,1,2,2-Tetrachloroethane	16.34	N.D.	13.37	21.41	82	86	40-152	46 *	30
Bromobenzene	16.34	N.D.	13.02	18.94	80	76	43-139	37 *	30
1,2,3-Trichloropropane	16.34	N.D.	13.59	21.9	83	88	45-154	47 *	30
n-Propylbenzene	16.34	N.D.	10.99	13.96	67	56	39-157	24	30
2-Chlorotoluene	16.34	N.D.	11.69	15.62	72	63	42-146	29	30
1,3,5-Trimethylbenzene	16.34	N.D.	10.93	14.26	67	57	38-150	26	30
4-Chlorotoluene	16.34	N.D.	11.68	15.78	71	63	39-145	30	30
tert-Butylbenzene	16.34	N.D.	10.36	12.61	63	51	41-152	20	30
1,2,4-Trimethylbenzene	16.34	N.D.	11.01	14.77	67	59	37-149	29	30
sec-Butylbenzene	16.34	N.D.	9.69	11.68	59	47	33-157	19	30
1,3-Dichlorobenzene	16.34	N.D.	11.76	16.5	72	66	34-134	34 *	30
p-Isopropyltoluene	16.34	N.D.	9.67	12.05	59	48	29-152	22	30
1,4-Dichlorobenzene	16.34	N.D.	12.02	17.12	74	69	35-136	35 *	30
n-Butylbenzene	16.34	N.D.	9.04	11.27	55	45	30-146	22	30
1,2-Dichlorobenzene	16.34	N.D.	12.46	18.44	76	74	36-133	39 *	30
1,2-Dibromo-3-chloropropane	16.34	N.D.	10.82	18.15	66	73	30-139	51 *	30
1,2,4-Trichlorobenzene	16.34	N.D.	8.28	13.12	51	53	10-136	45 *	30
Hexachlorobutadiene	16.34	N.D.	8.44	11.12	52	45	10-155	27	30
1,2,3-Trichlorobenzene	16.34	N.D.	9.04	14.86	55	60	10-140	49 *	30

Jdt/A

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Results are being reported on an as received basis.

7/22/2011 11:00:44 AM

Page 2 of 2

DE059 0163

LDC#:25750K1a

VALIDATION FINDINGS WORKSHEET
Field DuplicatesPage: 1 of 1
Reviewer: JD
2nd Reviewer: C**METHOD:** GC MS Volatiles (EPA SW 846 Method 8260B)Y N NA
Y N NA

Were field duplicate pairs identified in this SDG?

Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ug/kg)		($\leq 50\%$) RPD	Qualifications (Parent only)
	6	7		
Methylene chloride	0.75	1.2	46	

V:\FIELD DUPLICATES\25750K1a.wpd

LDC #: 25750 km

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 2
Reviewer: JVG
2nd Reviewer: C

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is})/(A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A_x = Area of Compound

C_x = Concentration of compound

S = Standard deviation of the RRFs

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 50 std)	Recalculated RRF (RRF 50 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	11/23/10	Methylene chloride (FBZ)	0.2433	0.2433	0.2614	0.2614	13	13
	HP09953		Toluene (CBZ)	0.7997	0.7997	0.8561	0.8561	9	9
			1,1,2,2-TCA (DCB)	0.7128	0.7128	0.7300	0.7300	8	8

Cis/Cx	Ax	Ais
50/50	352474	1448770
50/50	825663	1032447
50/50	408310	572795

Conc	MeCl2	Toluene	1,1,2,2-TCA
4	0.3249	1.0037	0.8383
10	0.2705	0.8695	0.7400
20	0.2563	0.8578	0.7113
50	0.2433	0.7997	0.7128
100	0.2364	0.7955	0.6946
300	0.2372	0.8105	0.6830
S =	0.2614	0.8561	0.7300
X =	0.0337	0.0786	0.0565

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750 K/K

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 2 of 2
Reviewer: JVG
2nd Reviewer: EA

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_s)(C_{is})/(A_{is})(C_s)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A_s = Area of Compound

C_s = Concentration of compound

S = Standard deviation of the RRFs

A_s = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 50 std)	Recalculated RRF (RRF 50 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	01/05/11	Acetone (FBZ)	0.0398	0.0398	0.0439	0.0439	10	10
	HP09355		Toluene (CBZ)	0.9057	0.9057	0.9062	0.9062	3	3
			1,1,2,2-TCA (DCB)	0.8324	0.8324	0.8151	0.8151	4	4

Cis/Cx	Ax	Ais
50/100	99822	1254664
50/50	861713	951409
50/50	491174	590092

Conc	Acetone	Toluene	1,1,2,2-TCA
4	0.0456	0.8936	0.7696
10	0.0494	0.8678	0.8372
20	0.0475	0.9474	0.8582
50	0.0398	0.9057	0.8324
100	0.0400	0.8833	0.7982
300	0.0408	0.9395	0.7948
S =	0.0439	0.9062	0.8151
X =	0.0042	0.0315	0.0329

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (\text{Ax}) / (\text{Cis}) / (\text{AIs}) / (\text{Cx})$$

Where:

ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
Ax = Area of compound,
Cis = Concentration of compound,
AIs = Area of associated internal standard
Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported % D	Recalculated %D
1	bj14c01	1/14/11	Methylene chloride (FBZ)	0.2614	0.2614	0.2614	0	0
	HP09953		Toluene (CBZ)	0.8561	0.9027	0.9027	5	5
			1,1,2,2-TCA (DCB)	0.7300	0.7159	0.7159	2	2

CCV1

Cis/Cx	Compound	Response cpd	Response IS
50/50	Methylene chloride (FBZ)	315353	1206318
50/50	Toluene (CBZ)	771707	854931
50/50	1,1,2,2-TCA (DCB)	378393	528549

LDC # 25750 K1C

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results VerificationPage: 2 of 2
Reviewer: JVG
2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

Where:
% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$
RRF = $(\text{Ax}) / (\text{Cis}) / (\text{Ais}) / (\text{Cx})$
ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
Ax = Area of compound,
Cis = Concentration of compound,
Ais = Area of associated internal standard
Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported % D	Recalculated %D
1	yj14c01	1/14/2011	Acetone (FBZ)	0.0439	0.0413	0.0413	6	6
	HP09355		Toluene (CBZ)	0.9062	0.9230	0.9230	2	2
			1,1,2,2-TCA (DCB)	0.8151	0.8035	0.8035	1	1

CCV1

Cis/Cx	Compound	Ax	Ais
50/100	Acetone (FBZ)	89977	1089971
50/50	Toluene (CBZ)	782924	848224
50/50	1,1,2,2-TCA (DCB)	444277	552915

LDC #: 25750 KIA

VALIDATION FINDINGS WORKSHEET **Surrogate Results Verification**

Page: 1 of 1Reviewer: JVG2nd reviewer: C

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$ Where: SF = Surrogate Found
SS = Surrogate SpikedSample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	50	49.2	98	98	0
Bromofluorobenzene	1	40.1	80	80	1
1,2-Dichloroethane-d4	1	53.9	108	108	1
Dibromofluoromethane	1	55.9	112	112	1

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

VALIDATION FINDINGS WORKSHEET Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 * (SSC - SC) / SA$ Where: SSC = Spiked sample concentration SC = Sample concentration
 SA = Spike added
 RPD = $100 * MSC - MSC / (2 * (MSC + MSDC))$ MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD sample: 12/14

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)		Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	MS	MSD	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	18.6	28.3	0		19.0	29.7	102	102	105	105	3	3
Trichloroethene					16.4	23.7	88	88	84	84	5	5
Benzene					17.8	26.8	96	96	95	95	1	1
Toluene					16.5	23.6	89	89	83	83	7	7
Chlorobenzene					15.5	22.7	83	83	78	78	6	6

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

% RPD based on %R instead of conc.

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
 Reviewer: JK
 2nd Reviewer: A

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

Where: SSC = Spiked sample concentration
SA = Spike added

LCSC = Laboratory control sample concentration

LCSDC = Laboratory control sample duplicate concentration

LCS ID: 85 B 48

[illegible]

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750 KIA

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: 1 of 1

Reviewer: JVG

2nd reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

(Y)N N/A. Were all reported results recalculated and verified for all level IV samples?

Y/N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_s)(I_s)(DF)}{(A_b)(RRF)(V_o)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. 1, MeCl₂

$$\text{Conc.} = \frac{(3314)(50)(5\text{ml})}{(1014956)(0.2614)(5.12\text{g})(0.900)}$$

$$= 0.678$$

$$\approx 0,68 \text{ ug/kg}$$

[illegible]

0.48

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: January 12, 2011

LDC Report Date: July 11, 2011

Matrix: Soil/Water

Parameters: 1,4-Dioxane

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE059

Sample Identification

SL-104-SA5B-SB-4.0-5.0
SL-104-SA5B-SB-9.0-10.0
SL-098-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-9.0-10.0
SL-092-SA5B-SB-4.0-5.0
DUP17-SA5B-QC-011211
SL-072-SA5B-SB-4.0-5.0
SL-071-SA5B-SB-2.0-3.0
SL-097-SA5B-SB-4.0-5.0
SL-097-SA5B-SB-7.0-8.0
TB-011211
SL-092-SA5B-SB-4.0-5.0MS
SL-092-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 13 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B using Selected Ion Monitoring (SIM) for 1,4-Dioxane.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for 1,4-Dioxane.

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 25.0% for 1,4-Dioxane.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for 1,4-Dioxane.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No 1,4-Dioxane was found in the method blanks.

Sample TB-011211 was identified as a trip blank. No 1,4-Dioxane was found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE059	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples SL-092-SA5B-SB-4.0-5.0 and DUP17-SA5B-QC-011211 were identified as field duplicates. No 1,4-Dioxane were detected in any of the samples.

Santa Susana Field Laboratory
1,4-Dioxane - Data Qualification Summary - SDG DE059

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0 TB-011211	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
1,4-Dioxane - Field Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

LDC #: 25750K1b **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE059

Level IV

Laboratory: Lancaster Laboratories

Date: 7/08/11

Page: 1 of 1

Reviewer: SVL

2nd Reviewer: [Signature]

METHOD: GC/MS 1,4-Dioxane (EPA SW 846 Method 8260B-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/12/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	% RSD $\leq$ 30 %
IV.	Continuing calibration/ICV	A	CCV/ICV $\leq$ 25 %
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS / D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	ND	D = 6.7
XVII.	Field blanks	ND	TB = 12

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil + water

1	SL-104-SA5B-SB-4.0-5.0 S	11	SL-097-SA5B-SB-7.0-8.0 S	21	VBLK E98	31	
2	SL-104-SA5B-SB-9.0-10.0	12	TB-011211 W	22	VBLK E95	32	
3	SL-098-SA5B-SB-4.0-5.0	13	SL-092-SA5B-SB-4.0-5.0MS S	23		33	
4	SL-103-SA5B-SB-4.0-5.0	14	SL-092-SA5B-SB-4.0-5.0MSD	24		34	
5	SL-103-SA5B-SB-9.0-10.0	15		25		35	
6	SL-092-SA5B-SB-4.0-5.0 b	16		26		36	
7	DUP17-SA5B-QC-011211 p	17		27		37	
8	SL-072-SA5B-SB-4.0-5.0	18		28		38	
9	SL-071-SA5B-SB-2.0-3.0	19		29		39	
10	SL-097-SA5B-SB-4.0-5.0	20		30		40	

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	☒	☐	☐	
Were all samples analyzed within the 12 hour clock criteria?	☒	☐	☐	
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	☒	☐	☐	
Was a curve fit used for evaluation?	☐	☒	☐	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990 ?	☐	☐	☒	
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ?	☒	☐	☐	
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	☒	☐	☐	
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	☒	☐	☐	
Were all percent differences (%D) $< 25\%$ and relative response factors (RRF) > 0.05 ?	☒	☐	☐	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	☒	☐	☐	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	☐	☐	☒	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☒	☐	☐	
Was a MS/MSD analyzed every 20 samples of each matrix?	☒	☐	☐	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☒	☐	☐	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		/		
Were the performance evaluation (PE) samples within the acceptance limits?			/	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	/			
Were retention times within + 30 seconds of the associated calibration standard?	/			
XI. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	/			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	/			
Were chromatogram peaks verified and accounted for?	/			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	/			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			/	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?			/	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			/	
XIV. System performance				
System performance was found to be acceptable.	/			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target compounds were detected in the field duplicates.		/		
XVII. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.		/		

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260B-SIM)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (Ax)(Cis)/(Ais)(Cx)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

Ax = Area of Compound

Cx = Concentration of compound

S = Standard deviation of the RRFs

Ais = Area of associated internal standard

Cis = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	11/7/10	1,4-Dioxane (1,4-D-d8)	1.3392	1.3392	1.3396	1.3396	2	2
	HP15648								

Cis/Cx	Ax	Ax
10/10	25596	19113

Conc	RRF
0.5	1.3082
2.0	1.3793
5.0	1.3539
10.0	1.3392
25.0	1.3175
X =	1.3396
S =	0.0285

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 2
 Reviewer: JVG
 2nd Reviewer: CA

METHOD: GC/MS VOA (EPA SW 846 Method 8260B-SIM)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (Ax)(Cis)/(Ais)(Cx)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

Ax = Area of Compound

Cx = Concentration of compound

S = Standard deviation of the RRFs

Ais = Area of associated internal standard

Cis = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	11/1/10	1,4-Dioxane (1,4-D-d8)	1.3193	1.3359	1.3219	1.3219	1	1
	HP15648								

Cis/Cx	Ax	Ax
10/10	29359	21977

Conc	RRF
0.5	1.3291
2.0	1.3004
5.0	1.3359
10.0	1.3193
25.0	1.3248
X =	1.3219
S =	0.0135

LDC # 15750 K/bVALIDATION FINDINGS WORKSHEET
Continuing Calibration Calculation VerificationPage: 1 of 1
Reviewer: JVG
2nd Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260B-SIM)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$ Where: Cx = Concentration of compound,
RRF = $(\text{Ax})(\text{Cis}) / (\text{Ais})(\text{Cx})$ ave. RRF = initial calibration average RRF Ais = Area of associated internal standard
Ax = Area of compound RRF = continuing calibration RRF Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	CCV RRF	Reported RRF	Recalculated RRF	Reported % D	Recalculated %D
1	ej17c01	1/17/11	1,4-Dioxane (1,4-D-d8)	1.3396	1.3766	1.3766	3	3
	HP15648							
2	ej13c01	1/13/11	1,4-Dioxane (1,4-D-d8)	1.3219	1.3211	1.3211	0	0
	HP15648							

	Compound (IS)	Cis/Cx	Ax	Ais
CCV1	1,4-Dioxane (1,4-D-d8)	10/10	30882	22433
CCV2	1,4-Dioxane (1,4-D-d8)	10/10	19319	14623

LDC #: 75750 K16

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

Page: 1 of 1

Reviewer: JVG

2nd reviewer: 

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$ Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	10	9.877	99	99	0
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

LDC #: 25750 K16VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results VerificationPage: 1 of 1
Reviewer: JVL
2nd Reviewer: e

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 * ((\text{SSC} - \text{SC}) / \text{SA})$$

Where: SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

$$\text{RPD} = | \text{MSC} - \text{MSC} | * 2 / (\text{MSC} + \text{MSDC})$$

MSC = Matrix spike concentration

MSDC = Matrix spike duplicate concentration

MS/MSD sample: 13/14

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)		Spiked Sample Concentration (ug/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	-----	-----	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,4-Dioxane	128.6	109.0	6		117.14	100	92	91	92	92	6	16
1,1-Dichloroethene												
Trichloroethene												
Benzene												
Toluene												
Chlorobenzene												

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

66 calcd RPD based on %R and not conc.

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 * \text{SSC} / \text{SA}$$

Where: SSC = Spiked sample concentration
SA = Spike added

$$RPD = |LCSC - LCSDC| * 2 / (LCSC + LCSDC)$$

LCSC = Laboratory control sample concentration

LCSDC = Laboratory control sample duplicate concentration

LCS ID: LCS/b E 95

[illegible]

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: January 12, 2011

LDC Report Date: July 11, 2011

Matrix: Soil

Parameters: Semivolatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE059

Sample Identification

SL-104-SA5B-SB-4.0-5.0
SL-104-SA5B-SB-9.0-10.0
SL-098-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-9.0-10.0
SL-092-SA5B-SB-4.0-5.0
DUP17-SA5B-QC-011211
SL-072-SA5B-SB-4.0-5.0
SL-071-SA5B-SB-2.0-3.0
SL-097-SA5B-SB-4.0-5.0
SL-097-SA5B-SB-7.0-8.0
SL-092-SA5B-SB-4.0-5.0MS
SL-092-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 13 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
1/24/11	4,6-Dinitro-2-methylphenol	30	All samples in SDG DE059	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-092-SA5B-SB-4.0-5.0MS/MSD (SL-092-SA5B-SB-4.0-5.0)	4,6-Dinitro-2-methylphenol N-Nitrosodimethylamine	119 (24-116) -	- 117 (48-113)	- -	J (all detects) J (all detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCS LB015L	2-Chloronaphthalene 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol N-Nitrosodimethylamine	156 (49-128) 125 (37-120) 116 (53-110) 109 (60-106)	All samples in SDG DE059	J (all detects) J (all detects) J (all detects) J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE059	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples SL-092-SA5B-SB-4.0-5.0 and DUP17-SA5B-QC-011211 were identified as field duplicates. No semivolatiles were detected in any of the samples.

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE059

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	4,6-Dinitro-2-methylphenol	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE059	SL-092-SA5B-SB-4.0-5.0	4,6-Dinitro-2-methylphenol N-Nitrosodimethylamine	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	2-Chloronaphthalene 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol N-Nitrosodimethylamine	J (all detects) J (all detects) J (all detects) J (all detects)	P	Laboratory control samples (%R) (L)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/12/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	% RSD $\leq 30\%$ ✓
IV.	Continuing calibration/ICV	SW	CCV/ICV $\leq 25\%$
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SAI	
VIII.	Laboratory control samples	SW	KS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	ND	D = 6.7
XVII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil

1	SL-104-SA5B-SB-4.0-5.0	11	SL-097-SA5B-SB-7.0-8.0	21	SL-092-SA5B-SB-4.0-5.0MS	31	
2	SL-104-SA5B-SB-9.0-10.0	12	SL-092-SA5B-SB-4.0-5.0MS	22		32	
3	SL-098-SA5B-SB-4.0-5.0	13	SL-092-SA5B-SB-4.0-5.0MSD	23		33	
4	SL-103-SA5B-SB-4.0-5.0	14		24		34	
5	SL-103-SA5B-SB-9.0-10.0	15		25		35	
6	SL-092-SA5B-SB-4.0-5.0 D	16		26		36	
7	DUP17-SA5B-QC-011211 D	17		27		37	
8	SL-072-SA5B-SB-4.0-5.0	18		28		38	
9	SL-071-SA5B-SB-2.0-3.0	19		29		39	
10	SL-097-SA5B-SB-4.0-5.0	20		30		40	

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. GC/MS instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Was a curve fit used for evaluation?	/			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	/			
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) ≥ 0.05 ?	/			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ?		/		
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	/			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			/	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			/	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/	/		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☐	☒	☐	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☒	☐	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☒	☐	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	☒	☐	☐	
Were retention times within + 30 seconds from the associated calibration standard?	☒	☐	☐	
XI. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	☒	☐	☐	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	☒	☐	☐	
Were chromatogram peaks verified and accounted for?	☒	☐	☐	
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	☒	☐	☐	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	☐	☐	☒	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?	☐	☐	☒	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	☐	☒	☐	
XIV. System performance				
System performance was found to be acceptable.	☒	☐	☐	
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒	☐	☐	
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	☒	☐	☐	
Target compounds were detected in the field duplicates.	☐	☒	☐	
XVII. Field blanks				
Field blanks were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field blanks.	☐	☐	☒	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

A. Phenol**	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol**	III. Benzo(a)pyrene**
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol**	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene**	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol*	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene**	T. 4-Chloroaniline	II. 4-Nitrophenol*	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene**	JJ. Dibenzofuran	YY. Fluoranthene**	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol**	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene*	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine*	Y. 2,4,6-Trichlorophenol**	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT.
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)**	FFF. Di-n-octylphthalate**	UUU
N. 2-Nitrophenol**	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

Notes:* = System performance check compound (SPCC) for RRF; ** = Calibration check compound (CCC) for %RSD.

VALIDATION FINDINGS WORKSHEET

Continuing Calibration

Page: 1 of 1
Reviewer: N/C
2nd Reviewer: ✓

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".	
☒ N	☐ N/A
Was a continuing calibration standard analyzed at least once every 12 hours of sample analysis for each instrument?	
☒ N	☐ N/A
Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?	
☐ Y	☐ N/A
Were all %D and RRFs within the validation criteria of $\leq 25\%$ D and ≥ 0.05 RRF?	

[illegible]

Y/N	N/A	Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.
☒	☐	

Was a MS/MSD analyzed every 20 samples of each matrix?

Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

[illegible]

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y)N N/A

Were the LCS/LCSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

Y/N/A

[illegible]

LDC #: 15750 f2a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 2
Reviewer: JVG
2nd Reviewer: A

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is})/(A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A_x = Area of Compound

C_x = Concentration of compound,

S= Standard deviation of the RRFs,

A_{is} = Area of associated internal standard

C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 40 std)	Recalculated RRF (RRF 40 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	01/14/11	Phenol (IS1)	2.118	2.118	2.002	2.002	6	6
			2,4-Dichlorophenol (IS2)	0.284	0.284	0.279	0.279	6	6
	TE17734		2,4,5-Trichlorophenol (IS3)	0.362	0.362	0.361	0.361	8	8
			Pentachlorophenol (IS4)	0.086	0.086	0.291	0.086	6	6
			Benzidine (IS5)	see r2 calc					

Conc IS/Cpd	Area cpd	Area IS
40/50	790743	298716
40/50	439787	1240678
40/50	308452	682304
40/50	99911	933964
40/50	2563483	963381

Conc	Phenol	2,4-DCP	2,4,5-TCP	PCP	Benzidine
5	1.773	0.247	0.307	0.078	r2
15	1.944	0.274	0.361	0.081	
30	2.097	0.287	0.361	0.088	
50	2.118	0.284	0.362	0.086	
80	2.009	0.289	0.391	0.093	
120	2.072	0.293	0.385	0.088	
X =	2.002	0.279	0.361	0.086	#DIV/0!
S =	0.129	0.017	0.030	0.005	#DIV/0!

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC # 25758 K24

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation VerificationPage: 2 of 2
Reviewer: JG
2nd Reviewer: A

METHOD: EPA SW 846 Method 8270C

Parameter: Benzidine

Order of regression: Linear

Date	Instrument	Compound	Points	y area ratio	x conc ratio
14-Jan-11	TE17734	Benzidine	Point 1	0.258168	0.38
			Point 2	1.107830	1.13
			Point 3	2.448496	2.25
			Point 4	4.232524	3.75
			Point 5	6.277968	6.00
			Point 6	9.773837	9.00

RF
0.6884
0.9847
1.0882
1.1287
1.0463
1.0860
1.0037

Regression Output: Regression Output:			Reported WLR
Constant	-0.07425	c =	0.0737264
Std Err of Y Est	0.04		
R Squared	0.998462	r ² =	0.998463
No. of Observations	6.00		
Degrees of Freedom	4.00	m =	1.092539
X Coefficient(s)	1.09086		
Std Err of Coef.	0.01		

LDC #: 25750 K29

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

Page: 1 of 1Reviewer: JRK2nd reviewer: C

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$ Where: SF = Surrogate Found
SS = Surrogate SpikedSample ID: # 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	100	87.5	88	88	0
2-Fluorobiphenyl	↓	95.6	96	96	↓
Terphenyl-d14	↓	82.1	82	82	↓
Phenol-d5	200	199.3	100	100	↓
2-Fluorophenol	↓	192.6	96	96	↓
2,4,6-Tribromophenol	↓	185.2	93	93	↓
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$

Where: SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

$$RPD = |MSC - MSC| * 2 / (MSC + MSC)$$

MSC = Matrix spike concentration

MSDC = Matrix spike duplicate concentration

MS/MSD samples: 12/13[illegible]

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: January 12, 2011

LDC Report Date: July 11, 2011

Matrix: Soil

Parameters: Semivolatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE059

Sample Identification

SL-104-SA5B-SB-4.0-5.0
SL-104-SA5B-SB-9.0-10.0
SL-098-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-9.0-10.0
SL-092-SA5B-SB-4.0-5.0
DUP17-SA5B-QC-011211
SL-072-SA5B-SB-4.0-5.0
SL-071-SA5B-SB-2.0-3.0
SL-097-SA5B-SB-4.0-5.0
SL-097-SA5B-SB-7.0-8.0
SL-092-SA5B-SB-4.0-5.0MS
SL-092-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 13 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C using Selected Ion Monitoring (SIM) for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
SBLKH018	1/19/11	Di-n-octylphthalate	7.4 ug/Kg	All samples in SDG DE059

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
SL-104-SA5B-SB-4.0-5.0	Di-n-octylphthalate	9.7 ug/Kg	20U ug/Kg
SL-104-SA5B-SB-9.0-10.0	Di-n-octylphthalate	8.9 ug/Kg	20U ug/Kg
SL-098-SA5B-SB-4.0-5.0	Di-n-octylphthalate	8.6 ug/Kg	21U ug/Kg
SL-103-SA5B-SB-9.0-10.0	Di-n-octylphthalate	8.9 ug/Kg	21U ug/Kg
SL-092-SA5B-SB-4.0-5.0	Di-n-octylphthalate	8.7 ug/Kg	20U ug/Kg

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-092-SA5B-SB-4.0-5.0MS/MSD (SL-092-SA5B-SB-4.0-5.0)	Benzo(k)fluoranthene	-	145 (42-144)	-	J (all detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE059	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples SL-092-SA5B-SB-4.0-5.0 and DUP17-SA5B-QC-011211 were identified as field duplicates. No semivolatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
Benzo(b)fluoranthene	0.93	1.0	7 (≤50)	-	-
Di-n-octylphthalate	8.7	20U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Chrysene	1.9U	0.46	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE059

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE059	SL-092-SA5B-SB-4.0-5.0	Benzo(k)fluoranthene	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DE059	SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211	Di-n-octylphthalate Chrysene	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE059

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE049	SL-104-SA5B-SB-4.0-5.0	Di-n-octylphthalate	20U ug/Kg	A	B
DE049	SL-104-SA5B-SB-9.0-10.0	Di-n-octylphthalate	20U ug/Kg	A	B
DE049	SL-098-SA5B-SB-4.0-5.0	Di-n-octylphthalate	21U ug/Kg	A	B
DE049	SL-103-SA5B-SB-9.0-10.0	Di-n-octylphthalate	21U ug/Kg	A	B
DE049	SL-092-SA5B-SB-4.0-5.0	Di-n-octylphthalate	20U ug/Kg	A	B

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

METHOD: GC/MS ^{SVD A} Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/12/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	2 RSD $\leq$ 30% $\checkmark$
IV.	Continuing calibration/ICV	A	CV/ICV $\leq$ 25% $\checkmark$
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LES
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	SW	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 6.7
XVII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

501

1	SL-104-SA5B-SB-4.0-5.0	11	SL-097-SA5B-SB-7.0-8.0	21	SLK H018	31	
2	SL-104-SA5B-SB-9.0-10.0	12	SL-092-SA5B-SB-4.0-5.0MS	22		32	
3	SL-098-SA5B-SB-4.0-5.0	13	SL-092-SA5B-SB-4.0-5.0MSD	23		33	
4	SL-103-SA5B-SB-4.0-5.0	14		24		34	
5	SL-103-SA5B-SB-9.0-10.0	15		25		35	
6	SL-092-SA5B-SB-4.0-5.0 ⁷	16		26		36	
7	DUP17-SA5B-QC-011211 ^D	17		27		37	
8	SL-072-SA5B-SB-4.0-5.0	18		28		38	
9	SL-071-SA5B-SB-2.0-3.0	19		29		39	
10	SL-097-SA5B-SB-4.0-5.0	20		30		40	

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. GC/MS instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Was a curve fit used for evaluation?	/			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	/			
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ?	/			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	/			
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ?	/			
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	/			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			/	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			/	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		/		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		/		
Were the performance evaluation (PE) samples within the acceptance limits?			/	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	/			
Were retention times within + 30 seconds from the associated calibration standard?	/			
XI. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	/			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	/			
Were chromatogram peaks verified and accounted for?	/			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	/			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			/	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?			/	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?		/		
XIV. System performance				
System performance was found to be acceptable.	/			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target compounds were detected in the field duplicates.	/			
XVII. Field blanks				
Field blanks were identified in this SDG.		/		
Target compounds were detected in the field blanks.			/	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

A. Phenol**	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol**	III. Benzo(a)pyrene**
B. Bis(2-chloroethyl) ether	Q. 2,4-Dichlorophenol**	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene**	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol*	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene**	T. 4-Chloroaniline	II. 4-Nitrophenol*	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene**	JJ. Dibenzofuran	YY. Fluoranthene**	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol**	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene*	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine*	Y. 2,4,6-Trichlorophenol**	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT.
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)**	FFF. Di-n-octylphthalate**	UUU
N. 2-Nitrophenol**	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

Notes:* = System performance check compound (SPCC) for RRF. ** = Calibration check compound (CCC) for %RSD.

Blanks

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a method blank analyzed for each matrix?	☒ Y	☐ N	☐ N/A
Was a method blank analyzed for each concentration preparation level?	☐ Y	☐ N	☐ N/A
Was a method blank associated with every sample?	☐ Y	☐ N	☐ N/A
Was the blank contaminated? If yes, please see qualification below.	☒ Y	☐ N	☐ N/A

Was the blank contaminated? If yes, please see qualification below.

Blank extraction date: 1/19/11 Blank analysis date: 1/24/11
 Conc. units: ug/kg Associated Samples: A1
6du : B

Associated Samples:

[illegible]

Blank extraction date: Blank analysis date:

Conc. units: _____

[illegible]

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:

Common contaminants such as the phthalates and TICs noted above that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

VALIDATION FINDINGS WORKSHEET

Reviewer:
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Was a MS/MSD analyzed every 20 samples of each matrix?

Y	N	N/A
---	---	-----

Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

[illegible]

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
A.	Phenol	26-90%	< 35%	12-110%	< 42%	Acenaphthene	31-137%	< 19%	46-118%	< 31%
C.	2-Chlorophenol	25-102%	< 50%	27-123%	< 40%	4-Nitrophenol	11-114%	< 50%	10-80%	< 50%
E.	1,4-Dichlorobenzene	28-104%	< 27%	36-97%	< 28%	2,4-Dinitrotoluene	28-89%	< 47%	24-96%	< 38%
J.	N-Nitroso-di-n-propylamine	41-126%	< 38%	41-116%	< 38%	Pentachlorophenol	17-109%	< 47%	9-103%	< 50%
R.	1,2,4-Trichlorobenzene	38-107%	< 23%	39-98%	< 28%	Pyrene	35-142%	< 36%	26-127%	< 31%
V.	4-Chloro-3-methylphenol	26-103%	< 33%	23-97%	< 42%					

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were all internal standard area counts within -50 to +100 of the associated calibration standard?

☒ N ☒ N/A

Y/N	N/A	Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?

[illegible]

* QC limits are advisory

VALIDATION FINDINGS WORKSHEET
Field DuplicatesPage: 1 of 1
Reviewer: JVG
2nd Reviewer: **METHOD:** GC MS SVOA (EPA SW 846 Method 8270C-SIM)Y N NA

Were field duplicate pairs identified in this SDG?

Y N NA

Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ug/kg)		(≤50) RPD	Qualifications (Parent only)
	6	7		
Benzo(b)fluoranthene	0.93	1.0	7 200	
Di-n-octyl phthalate	8.7	20U	200	J/UJ/A (FD)
Chrysene	1.9U	0.46	200	J/UJ/A (FD)

LDC #: 25750 k26

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation VerificationPage: 1 of 1
Reviewer: JVG
2nd Reviewer: [Signature]

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (A_x)(C_{is})/(A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

 A_x = Area of Compound C_x = Concentration of compound,

S= Standard deviation of the RRFs,

 A_{is} = Area of associated internal standard C_{is} = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 1.0 std)	Recalculated RRF (RRF 1.0 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	01/21/11	NDMA	1.055	1.055	1.063	1.063	7	7
			Naphthalene	1.065	1.065	1.103	1.103	8	8
	HP10976		Diethylphthalate	1.299	1.299	1.329	1.329	7	7
			Phenanthrene	1.133	1.133	1.187	1.187	8	8
			Chrysene	1.115	1.115	1.157	1.157	8	8
			Benzo(a)pyrene	1.066	1.066	1.081	1.082	12	12

Cis/Cx	Ax	Ais
1/1	109903	104163
1/1	433342	407045
1/1	315294	242668
1/1	461993	407800
1/1	481854	432149
1/1	428564	402171

Conc	NDMA	Naphthalene	Diethylphthalate	Phenanthrene	Chrysene	benzo(a)py
0.05	0.997	1.028	1.237	1.123	1.093	0.883
0.2	1.179	1.272	1.455	1.357	1.332	1.152
0.5	0.990	1.038	1.222	1.102	1.091	0.993
1	1.055	1.065	1.299	1.133	1.115	1.066
5	1.049	1.071	1.337	1.176	1.137	1.181
10	1.105	1.142	1.425	1.228	1.172	1.214
X =	1.0625	1.103	1.329	1.187	1.157	1.082
S =	0.071	0.092	0.096	0.095	0.091	0.126

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC # 25750 K26

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [Signature]

METHOD: GC/MS SVOA (EPA SW 846 Method 8270C-SIM)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 \cdot (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$
$$\text{RRF} = (\text{Ax})(\text{Cis}) / (\text{Ais})(\text{Cx})$$

Cx = Concentration of compound,
Ais = Area of associated internal standard
Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	Average RRF (Initial)	Reported RRF (CCV)	Recalculated RRF (CCV)	Reported % D	Recalculated %D
1	ia0801	01/24/11	NDMA (IS1)	1.063	1.041	1.041	2	2
			Naphthalene (IS2)	1.103	1.027	1.027	7	7
	HP-10976		Diethylphthalate (IS3)	1.329	1.229	1.229	8	8
			Phenanthrene (IS4)	1.187	1.089	1.089	8	8
			Chrysene (IS5)	1.157	1.086	1.086	6	6
			Benzo(a)pyrene (IS6)	1.081	1.045	1.045	3	3
2	ia0831	01/24/11	NDMA (IS1)	1.063	1.056	1.056	1	1
			Naphthalene (IS2)	1.103	1.060	1.060	4	4
	HP-10976		Diethylphthalate (IS3)	1.329	1.474	1.474	11	11
			Phenanthrene (IS4)	1.187	1.125	1.125	5	5
			Chrysene (IS5)	1.157	1.102	1.102	5	5
			Benzo(a)pyrene (IS6)	1.081	1.070	1.070	1	1

CV1			CCV1			CCV2		
Cis/Cx	Compound (IS)		Ax	Ais		Ax	Ais	
1/1	NDMA (IS1)		49395	94894		82420	78050	
1/1	Naphthalene (IS2)		191343	372566		329699	311027	
1/1	Diethylphthalate (IS3)		135398	220346		276810	187758	
1/1	Phenanthrene (IS4)		205889	378269		357367	317713	
1/1	Chrysene (IS5)		233822	430623		383403	347848	
1/1	Benzo(a)pyrene (IS6)		199353	381430		348719	325992	

LDC #: 25750126**VALIDATION FINDINGS WORKSHEET**
Surrogate Results VerificationPage: 1 of 1Reviewer: sh2nd reviewer: A

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate SpikedSample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	1.0	0.955	95	95	0
2-Fluorobiphenyl	↓	0.891	89	89	↓
Terphenyl-d14	↓	0.909	91	91	↓
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$

where:

SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

$$RPD = I_{MSC} - MSC - MSC I^* 2 / (MSC + MSDC)$$

MSC = Matrix spike concentration

MSDC = Matrix spike duplicate concentration

MS/MSD samples: 12/13[illegible]

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 * (\text{SC/SA})$$

Where: SSC = Spike concentration
SA = Spike added

$$RPD = |LCSC - LCSDC| \cdot 2 / (LCSC + LCSDC)$$

LCSC = Laboratory control sample concentration

LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: 618 HCS

[illegible]

Comments: Refer to Laboratory Control Sample Duplicates worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: January 12, 2011

LDC Report Date: July 8, 2011

Matrix: Soil

Parameters: N-Nitrosodimethylamine

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE059

Sample Identification

SL-104-SA5B-SB-4.0-5.0
SL-104-SA5B-SB-9.0-10.0
SL-098-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-9.0-10.0
SL-092-SA5B-SB-4.0-5.0
DUP17-SA5B-QC-011211
SL-072-SA5B-SB-4.0-5.0
SL-071-SA5B-SB-2.0-3.0
SL-097-SA5B-SB-4.0-5.0
SL-097-SA5B-SB-7.0-8.0
SL-092-SA5B-SB-4.0-5.0MS
SL-092-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 13 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1625C for N-Nitrosodimethylamine.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance check is not required for by this method.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for N-Nitrosodimethylamine.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for N-Nitrosodimethylamine.

The percent difference (%D) of the second source calibration standard were less than or equal to 30.0% for N-Nitrosodimethylamine.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No N-nitrosodimethylamine was found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE059	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples SL-092-SA5B-SB-4.0-5.0 and DUP17-SA5B-QC-011211 were identified as field duplicates. No N-nitrosodimethylamine was detected in any of the samples with the following exceptions:

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
N-Nitrosodimethylamine	31	34	9 (≤50)	-	-

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Data Qualification Summary - SDG DE059

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Laboratory Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Field Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

METHOD: GC/MS N-Nitrosodimethylamine (EPA Method 1625C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/12/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	% RSD $\leq 30\%$
IV.	Continuing calibration/ICV	A	CCV $\leq 20\%$ ICV $\leq 30\%$
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LES
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 6.7
XVII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

S01

1	SL-104-SA5B-SB-4.0-5.0	11	SL-097-SA5B-SB-7.0-8.0	21	SBK LF0181	31	
2	SL-104-SA5B-SB-9.0-10.0	12	SL-092-SA5B-SB-4.0-5.0MS	22		32	
3	SL-098-SA5B-SB-4.0-5.0	13	SL-092-SA5B-SB-4.0-5.0MSD	23		33	
4	SL-103-SA5B-SB-4.0-5.0	14		24		34	
5	SL-103-SA5B-SB-9.0-10.0	15		25		35	
6	SL-092-SA5B-SB-4.0-5.0	16		26		36	
7	DUP17-SA5B-QC-011211	17		27		37	
8	SL-072-SA5B-SB-4.0-5.0	18		28		38	
9	SL-071-SA5B-SB-2.0-3.0	19		29		39	
10	SL-097-SA5B-SB-4.0-5.0	20		30		40	

Method: ^{NBNA} Semivolatiles (EPA SW 846 Method ^{1625C} 8270G)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times:				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. GC/MS Instrument performance check:				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	☒	☐	☐	
Were all samples analyzed within the 12 hour clock criteria?	☒	☐	☐	
III. Initial calibration:				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	☒	☐	☐	
Was a curve fit used for evaluation?	☐	☒	☐	
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	☐	☐	☒	
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ?	☒	☐	☐	
IV. Continuing calibration:				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	☒	☐	☐	
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	☒	☐	☐	
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ?	☒	☐	☐	
V. Blanks:				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
VI. Surrogate spikes:				
Were all surrogate %R within QC limits?	☒	☐	☒	
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?	☒	☐	☒	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	☐	☐	☒	
VII. Matrix spike/Matrix spike duplicates:				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☒	☐	☐	
Was a MS/MSD analyzed every 20 samples of each matrix?	☒	☐	☐	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☒	☐	☐	
VIII. Laboratory control samples:				
Was an LCS analyzed for this SDG?	☒	☐	☐	

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☒	☐	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	☒	☐	☐	
Were retention times within ± 30 seconds from the associated calibration standard?	☒	☐	☐	
XI. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	☒	☐	☐	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	☒	☐	☐	
Were chromatogram peaks verified and accounted for?	☒	☐	☐	
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	☒	☐	☐	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	☐	☐	☒	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?	☐	☐	☒	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	☐	☒	☐	
XIV. System performance				
System performance was found to be acceptable.	☒	☐	☐	
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒	☐	☐	
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	☒	☐	☐	
Target compounds were detected in the field duplicates.	☒	☐	☐	
XVII. Field blanks				
Field blanks were identified in this SDG.	☐	☒	☐	
Target compounds were detected in the field blanks.	☐	☐	☒	

VALIDATION FINDINGS WORKSHEET
Field DuplicatesPage: 1 of 1
Reviewer: JVG
2nd Reviewer: A**METHOD:** GC MS NDMA (EPA Method 1625C)Y N NA Were field duplicate pairs identified in this SDG?Y N NA Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ng/kg)		(≤50) RPD	Qualifications (Parent only)
	6	7		
NDMA	31	34	9	

LDC # 25750 K2C

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: 

METHOD: GC/MS NDMA (EPA Method 1625C)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$$RRF = (Ax)(Cis)/(Ais)(Cx)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

Ax = Area of Compound

Cx = Concentration of compound

S= Standard deviation of the RRFs

Ais = Area of associated internal standard

Cis = Concentration of internal standard

X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (IS)	Reported RRF (RRF 10 std)	Recalculated RRF (RRF 10 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/19/2011	NDMA	1.0230	1.0233	1.0940	1.0940	11	11
	TE16311		(NDMA-d6)						

Cis/Cx	Ax	Ax
25/25	180024	175926

Conc	RRF
1.0	1.333
5.0	1.011
10.0	1.112
25.0	1.023
50.0	1.049
100.0	1.036
X =	1.0940
S =	0.1223

LDC # 25750 K2cVALIDATION FINDINGS WORKSHEET
Continuing Calibration Calculation VerificationPage: 1 of 1
Reviewer: JVG
2nd Reviewer: A

METHOD: GC/MS NDMA (EPA Method 1625C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$ Where: Cx = Concentration of compound,
RRF = $(Ax)(Cis)/(Ais)(Cx)$ ave. RRF = initial calibration average RRF Ais = Area of associated internal standard
Ax = Area of compound RRF = continuing calibration RRF Cis = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (IS)	CCV RRF	Reported RRF	Recalculated RRF	Reported % D	Recalculated % D
1	aa230a TE16311	1/21/2011	NDMA (NDMA-d6)	1.0940	1.0162	1.0162	7	7
2	aa241 TE16311	1/21/2011	NDMA (NDMA-d6)	1.0940	1.3980	1.0284	6	6
3	aa252 TE16311	1/21/2011	NDMA (NDMA-d6)	1.0940	1.3980	1.0500	4	4

	Compound (IS)	Cis/Cx	Ax	Ais
CCV1	NDMA (NDMA-d6)	25/25	183117	180192
CCV2	NDMA (NDMA-d6)	25/25	148130	144034
CCV3	NDMA (NDMA-d6)	25/25	153665	146346

LDC #: 28750k2c

METHOD: GC/MS BNA (EPA SW 846 Method 8270C) NDMA 16250

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = $100 \times (\text{SSC} - \text{SC}) / \text{SA}$

Where: SSC = Spiked sample concentration
SA = Spike added
SC = Sample concentration

$RPD = |MSC - MSC| * 2 / (MSC + MSDC)$
 MSC = Matrix spike concentration
 MSDC = Matrix spike duplicate concentration

MS/MSD samples: $\bar{r}^2/13$ [illegible]

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC/MS BNA (EPA SW 846 Method-8270C) 16X C

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 * (\text{SC/SA})$$

Where: SSC = Spike concentration
SA = Spike added

$$RPD = |LCSC - LCSDC| * 2 / (LCSC + LCSDC)$$

LCSC = Laboratory control sample concentration

LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: 018LF LCS

[illegible]

Comments: Refer to Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25 750 k2e

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: 1 of 1

Reviewer: RL

2nd reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Y	N	N/A
Y	N	N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_s)(I_s)(V_s)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_l)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

$$I_s = \text{Amount of internal standard added in nanograms (ng)}$$

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_1 = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #, MB. MA

$$\text{Conc.} = \frac{(4487) (25.00) (1000 \text{ nL})}{(125630) (1.094) (30 \text{ g}) (6.906)}$$

$$= 30 \text{ ng/kg}$$

[illegible]

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: January 12, 2011

LDC Report Date: July 10, 2011

Matrix: Soil

Parameters: Polychlorinated Biphenyls

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE059

Sample Identification

SL-104-SA5B-SB-4.0-5.0
SL-104-SA5B-SB-9.0-10.0
SL-098-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-9.0-10.0
SL-092-SA5B-SB-4.0-5.0
DUP17-SA5B-QC-011211
SL-072-SA5B-SB-4.0-5.0
SL-071-SA5B-SB-2.0-3.0
SL-097-SA5B-SB-4.0-5.0
SL-097-SA5B-SB-7.0-8.0
SL-092-SA5B-SB-4.0-5.0MS
SL-092-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 13 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were evaluated and considered technically acceptable.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Affected Compound	Flag	A or P
1/26/11	1C20025.52R	R1	Aroclor-5442	29.6	All samples in SDG DE059	Aroclor-5442	J (all detects) UJ (all non-detects)	A
1/26/11	1C20025.52R	R2	Aroclor-5442	38.1	All samples in SDG DE059	Aroclor-5442	J (all detects) UJ (all non-detects)	A

The percent difference (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
SL-098-SA5B-SB-4.0-5.0	Not specified	Decachlorobiphenyl	122 (45-120)	All TCL compounds	J (all detects)	P
SL-103-SA5B-SB-4.0-5.0	Not specified	Decachlorobiphenyl	126 (45-120)	All TCL compounds	J (all detects)	P
SL-103-SA5B-SB-9.0-10.0	Not specified	Decachlorobiphenyl	122 (45-120)	All TCL compounds	J (all detects)	P
SL-092-SA5B-SB-4.0-5.0	Not specified	Decachlorobiphenyl	143 (45-120)	All TCL compounds	J (all detects)	P
DUP17-SA5B-QC-011211	Not specified	Decachlorobiphenyl	131 (45-120)	All TCL compounds	J (all detects)	P
SL-072-SA5B-SB-4.0-5.0	Not specified	Decachlorobiphenyl	124 (45-120)	All TCL compounds	J (all detects)	A
SL-097-SA5B-SB-7.0-8.0	Not specified	Decachlorobiphenyl	146 (45-120)	All TCL compounds	J (all detects)	P
110170029-BLK	Not specified	Decachlorobiphenyl	146 (45-120)	All TCL compounds	J (all detects)	P

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

All target compound identifications were within validation criteria.

XIII. Compound Quantitation and Reported CRQLs

All compound quantitation and CRQLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
SL-103-SA5B-SB-4.0-5.0	Aroclor-1260	59	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE059	All compounds reported below the RL.	J (all detects)	A

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

Samples SL-092-SA5B-SB-4.0-5.0 and DUP17-SA5B-QC-011211 were identified as field duplicates. No polychlorinated biphenyls were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
Aroclor-1260	0.77	0.69	11 (≤50)	-	-
Aroclor-1254	0.37U	0.69	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Data Qualification Summary - SDG DE059

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	Aroclor-5442	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE059	SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-097-SA5B-SB-7.0-8.0	All TCL compounds	J (all detects)	P	Surrogate spikes (%R) (S)
DE059	SL-072-SA5B-SB-4.0-5.0	All TCL compounds	J (all detects)	A	Surrogate spikes (%R) (S)
DE059	SL-103-SA5B-SB-4.0-5.0	Aroclor-1260	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DE059	SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211	Aroclor-1254	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

LDC #: 25750K3b **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE059

Level IV

Laboratory: Lancaster Laboratories

Date: 7-6-11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/12/11
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	9/02/07 = 20
IV.	Continuing calibration/ICV	SW	ICV/CCV = 20%
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCs/D
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	A	
XIII.	Compound quantitation and reported CRQLs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	SW	FD 26+7
XVI.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

ALL 501

1	SL-104-SA5B-SB-4.0-5.0	11	SL-097-SA5B-SB-7.0-8.0	21		31	110170029-BLK
2	SL-104-SA5B-SB-9.0-10.0	12	SL-092-SA5B-SB-4.0-5.0MS	22		32	
3	SL-098-SA5B-SB-4.0-5.0	13	SL-092-SA5B-SB-4.0-5.0MSD	23		33	
4	SL-103-SA5B-SB-4.0-5.0	14		24		34	
5	SL-103-SA5B-SB-9.0-10.0	15		25		35	
6	SL-092-SA5B-SB-4.0-5.0	16		26		36	
7	DUP17-SA5B-QC-011211	17		27		37	
8	SL-072-SA5B-SB-4.0-5.0	18		28		38	
9	SL-071-SA5B-SB-2.0-3.0	19		29		39	
10	SL-097-SA5B-SB-4.0-5.0	20		30		40	

Notes:

LDC #: 25750006
SDG #: See Cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: [Signature]
2nd Reviewer: [Signature]

Method: Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. GC/ECD Instrument performance check				
Was the instrument performance found to be acceptable?	☒	☐	☐	
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) $\leq 20\%$?	☒	☐	☐	
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	☐	☒	☐	
Did the initial calibration meet the curve fit acceptance criteria?	☐	☐	☒	
Were the RT windows properly established?	☒	☐	☐	
Were the required standard concentrations analyzed in the initial calibration?	☒	☐	☐	
IV. Continuing calibration				
What type of continuing calibration calculation was performed? <u> </u> %D or <u> </u> %R	☐	☐	☐	
Were Evaluation mix standards analyzed prior to the initial calibration and sample analysis?	☐	☐	☒	
Were endrin and 4,4'-DDT breakdowns $\leq 15\%$ for individual breakdown in the Evaluation mix standards?	☐	☐	☒	
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) $\leq 20\%$ or percent recoveries 80-120%?	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Were extract cleanup blanks analyzed with every batch requiring clean-up?	☒	☐	☐	
Was there contamination in the method blanks or clean-up blanks? If yes, please see the Blanks validation completeness worksheet.	☒	☐	☐	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	☒	☐	☐	
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	☒	☐	☐	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	☒	☐	☐	
VII. Matrix spike/Matrix spike duplicates				

LDC #: 25750 KB6
 SDG #: See cover

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
 Reviewer: WA
 2nd Reviewer: C

Validation Area	Yes	No	NA	Findings/Comments
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.				
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		/		
Were the performance evaluation (PE) samples within the acceptance limits?		/		
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	/			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions, dry weight factors, and clean-up activities applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target compounds were detected in the field duplicates.	/			
XV. Field blanks				
Field blanks were identified in this SDG.		/		
Target compounds were detected in the field blanks.		/		

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin		Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE		R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin		S. alpha-Chlordane	AA. Aroclor-1254	II.
D. gamma-BHC	L. Endosulfan II		T. gamma-Chlordane	BB. Aroclor-1260	JJ.
E. Heptachlor	M. 4,4'-DDD		U. Toxaphene	CC. 2,4'-DDD	KK.
F. Aldrin	N. Endosulfan sulfate		V. Aroclor-1016	DD. 2,4'-DDE	LL.
G. Heptachlor epoxide	O. 4,4'-DDT		W. Aroclor-1221	EE. 2,4'-DDT	MM.
H. Endosulfan I	P. Methoxychlor		X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes: _____

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Please see qualifications below for all questions answered "N" Not applicable questions are identified as "N/A".

Were Evaluation mix standards run before initial calibration and before samples?

Y N (N/A)

Y/N	N/A	Was at least one standard run daily to verify the working curve?
☒	☐	

Did the continuing calibration standards meet the percent difference (%D) of <20.0%?

Level IV/D Only

Were the retention times for all calibrated compounds within their respective acceptance windows?

[illegible][illegible]

METHOD: GC EPA 8081/8082 Pesticides/PCB's

Are surrogates required by the method? Yes ☒ or No ☐:

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were surrogates spiked into all samples and blanks?

Y/N	N/A	Did all surrogate recoveries (%R) meet the QC limits?
Y	N	N/A

[illegible]

Letter Designation	Surrogate Compound	Recovery QC Limits (Soil)	Recovery QC Limits (Water)	Comments
A	Tetrachloro-m-xylene			
B	Decachlorobiphenyl			

VALIDATION FINDINGS WORKSHEET

METHOD: GC HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

(X) N. N/A

Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?

Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

Did the percent difference of detected compounds between two columns <40%?

If no, please see findings below.

[illegible]

Comments: See sample calculation verification worksheet for recalculations

METHOD: ~~X~~ GC HPLC

~~ON~~ N/A Were field duplicate pairs identified in this SDG?

Y	N	N/A	Were target compounds detected in the field duplicate pairs?
Y	N	N/A	

[illegible][illegible]

LDC #: 25750136
SDG #: 200 CAW

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = $100 * (S/X)$
Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (200 std)	Recalculated CF (200 std)	Reported CF (initial)	Recalculated CF (initial)	Reported %RSD	Recalculated %RSD
1	PLAC	11/25/11	BB (P1) Peak 1	24	21	20	20	9.0	9.0
			BB (P2) Peak 1	101	101	96	96	3.5	3.5
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750K3b
SDG #: See Cal

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Percent difference (%D) = $100 * (N - C) / N$

Where: N = Initial Calibration Factor or Nominal Amount (ng)

C = Calibration Factor from Continuing Calibration Standard or Calculated Amount (ng)

Standard ID	Calibration Date/Time	Compound	Average CF/ CCV Conc	Reported	Recalculated	Reported %D	Recalculated %D
				CF/Conc CCV	CF/Conc CCV		
1C2005.501	1/26/11	hpb (P1)	200.00	205.68	205.68	2.8	2.8
		↓ (P2)	200.00	204.04	204.04	2.0	2.0

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750K36
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: AT
2nd reviewer: C

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene	<u>P₁</u>	<u>1.04</u>	<u>1.109</u>	<u>106</u>	<u>106</u>	<u>0</u>
Tetrachloro-m-xylene						
Decachlorobiphenyl	<u>P₁</u>	<u>1.04</u>	<u>1.318</u>	<u>126</u>	<u>126</u>	<u>0</u>
Decachlorobiphenyl						

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Notes: _____

VALIDATION FINDINGS WORKSHEET

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$

where

SSC = Spiked sample concentration

SC = Sample concentration

SA = Spike added

SA = Spike added

MSD = Matrix spike duplicate

MS/MSD samples: 12/13

[illegible]

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET

Page: 1 of 1
Reviewer: PT
2nd Reviewer: A

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

SC = Concentration

LCSD = Laboratory control sample duplicate percent recovery

[illegible]

Comments: Refer to Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750 kdb
SDG #: See card

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd reviewer: [Signature]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

☒ Y N N/A
☒ N N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Example:

Sample I.D. 4 BB:

$$\text{Conc.} = \frac{(1987.55) (2\text{mL})}{(16) (60\text{g})}$$

$$= 0.69 (\text{Peak 1})$$

$$+ 0.58 + 0.22 + 0.33 + 0.43 + 0.59$$

$$\div 6$$

$$= 0.47$$

$$\frac{0.47}{(0.868)} = 0.55 \text{ ug/kg} \checkmark$$

#	Sample ID	Compound	Reported Concentration ()	Calculated Concentration ()	Qualification

Note: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: January 12, 2011

LDC Report Date: July 12, 2011

Matrix: Soil

Parameters: Metals

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE059

Sample Identification

SL-104-SA5B-SB-4.0-5.0
SL-104-SA5B-SB-9.0-10.0
SL-098-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-9.0-10.0
SL-092-SA5B-SB-4.0-5.0
DUP17-SA5B-QC-011211
SL-072-SA5B-SB-4.0-5.0
SL-071-SA5B-SB-2.0-3.0
SL-097-SA5B-SB-4.0-5.0
SL-097-SA5B-SB-7.0-8.0
SL-092-SA5B-SB-4.0-5.0MS
SL-092-SA5B-SB-4.0-5.0MSD
SL-092-SA5B-SB-4.0-5.0DUP

Introduction

This data review covers 14 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7000 for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, and Zirconium.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No metal contaminants were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Lead Phosphorus Tin Zinc	0.066 mg/Kg 1.460 mg/Kg 1.319 mg/Kg 0.854 mg/Kg	All samples in SDG DE059
ICB/CCB	Beryllium	0.052 ug/L	All samples in SDG DE059

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-104-SA5B-SB-4.0-5.0	Tin	2.2 mg/Kg	2.2U mg/Kg
SL-104-SA5B-SB-9.0-10.0	Tin	2.3 mg/Kg	2.3U mg/Kg
SL-098-SA5B-SB-4.0-5.0	Tin	2.4 mg/Kg	2.4U mg/Kg

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-103-SA5B-SB-4.0-5.0	Tin	2.3 mg/Kg	2.3U mg/Kg
SL-103-SA5B-SB-9.0-10.0	Tin	2.4 mg/Kg	2.4U mg/Kg
SL-092-SA5B-SB-4.0-5.0	Tin	2.4 mg/Kg	2.4U mg/Kg
DUP17-SA5B-QC-011211	Tin	2.3 mg/Kg	2.3U mg/Kg
SL-072-SA5B-SB-4.0-5.0	Tin	3.4 mg/Kg	3.4U mg/Kg
SL-071-SA5B-SB-2.0-3.0	Tin	3.1 mg/Kg	3.1U mg/Kg
SL-097-SA5B-SB-4.0-5.0	Tin	2.5 mg/Kg	2.5U mg/Kg
SL-097-SA5B-SB-7.0-8.0	Tin	2.4 mg/Kg	2.4U mg/Kg

No field blanks were identified in this SDG.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-092-SA5B-SB-4.0-5.0MS/MSD (All samples in SDG DE059)	Antimony	33 (75-125)	35 (75-125)	-	J (all detects)	A
	Copper	32 (75-125)	35 (75-125)	-	UJ (all non-detects)	
	Phosphorus	33 (75-125)	8 (75-125)	-		
SL-092-SA5B-SB-4.0-5.0MS/MSD (All samples in SDG DE059)	Arsenic	155 (75-125)	180 (75-125)	-	J (all detects)	A
	Beryllium	-	132 (75-125)	-	J (all detects)	
	Cadmium	148 (75-125)	127 (75-125)	-	J (all detects)	
	Chromium	133 (75-125)	153 (75-125)	-	J (all detects)	
	Lead	212 (75-125)	155 (75-125)	-	J (all detects)	
	Nickel	-	127 (75-125)	-	J (all detects)	
	Silver	128 (75-125)	126 (75-125)	-	J (all detects)	
	Vanadium	139 (75-125)	174 (75-125)	-	J (all detects)	

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
SL-092-SA5B-SB-4.0-5.0DUP (All samples in SDG DE059)	Copper	51 (≤ 20)	-	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards

All internal standard percent recoveries (%R) were within QC limits.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution analysis was performed by the laboratory. The analysis criteria were met with the following exceptions:

Diluted Sample	Analyte	%D (Limits)	Associated Samples	Flag	A or P
SL-092-SA5B-SB-4.0-5.0	Barium Copper Lead	11 (≤ 10) 13 (≤ 10) 15 (≤ 10)	All samples in SDG DE059	J (all detects) UJ (all non-detects)	A

XII. Sample Result Verification

All sample result verifications were acceptable.

All metals reported below the RL and above the MDL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE059	All analytes reported below the RL and above the MDL.	J (all detects)	A

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples SL-092-SA5B-SB-4.0-5.0 and DUP17-SA5B-QC-011211 were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
Aluminum	15100	17400	14 (≤50)	-	-
Antimony	0.12	0.12	0 (≤50)	-	-
Arsenic	4.7	6.9	38 (≤50)	-	-
Barium	104	112	7 (≤50)	-	-
Beryllium	0.62	0.77	22 (≤50)	-	-
Boron	2.2	2.6	17 (≤50)	-	-
Cadmium	0.18	0.35	64 (≤50)	J (all detects)	A
Calcium	4170	3130	28 (≤50)	-	-
Chromium	19.6	24.2	21 (≤50)	-	-
Cobalt	6.3	7.2	13 (≤50)	-	-
Copper	13.8	8.5	48 (≤50)	-	-
Iron	24100	19600	21 (≤50)	-	-
Lead	5.8	7.4	24 (≤50)	-	-
Lithium	28.6	22.7	23 (≤50)	-	-
Magnesium	5190	4200	21 (≤50)	-	-
Manganese	300	288	4 (≤50)	-	-
Mercury	0.0033U	0.0036	200 (≤50)	J (all detects) UJ (all non-detects)	A

Analyte	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
Molybdenum	0.47	0.60	24 (≤50)	-	-
Nickel	11.9	14.7	21 (≤50)	-	-
Phosphorus	407	295	32 (≤50)	-	-
Potassium	2870	2670	7 (≤50)	-	-
Selenium	0.12	0.14	15 (≤50)	-	-
Silver	0.026	0.046	56 (≤50)	J (all detects)	A
Sodium	188	192	2 (≤50)	-	-
Strontium	21.7	21.0	3 (≤50)	-	-
Thallium	0.39	0.31	23 (≤50)	-	-
Tin	2.4	2.3	4 (≤50)	-	-
Titanium	1190	1070	11 (≤50)	-	-
Vanadium	37.7	46.0	20 (≤50)	-	-
Zinc	69.2	72.3	22 (≤50)	-	-
Zirconium	0.95	1.7	57 (≤50)	J (all detects)	A

Santa Susana Field Laboratory
Metals - Data Qualification Summary - SDG DE059

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	Antimony Copper Phosphorus	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	Arsenic Beryllium Cadmium Chromium Lead Nickel Silver Vanadium	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	Copper	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD) (E)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	Barium Copper Lead	J (all detects) UJ (all non-detects)	A	ICP serial dilution (%D) (A)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE059	SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211	Cadmium Silver Zirconium	J (all detects) J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)
DE059	SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211	Mercury	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Metals - Laboratory Blank Data Qualification Summary - SDG DE059

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE059	SL-104-SA5B-SB-4.0-5.0	Tin	2.2U mg/Kg	A	B
DE059	SL-104-SA5B-SB-9.0-10.0	Tin	2.3U mg/Kg	A	B
DE059	SL-098-SA5B-SB-4.0-5.0	Tin	2.4U mg/Kg	A	B
DE059	SL-103-SA5B-SB-4.0-5.0	Tin	2.3U mg/Kg	A	B
DE059	SL-103-SA5B-SB-9.0-10.0	Tin	2.4U mg/Kg	A	B
DE059	SL-092-SA5B-SB-4.0-5.0	Tin	2.4U mg/Kg	A	B
DE059	DUP17-SA5B-QC-011211	Tin	2.3U mg/Kg	A	B
DE059	SL-072-SA5B-SB-4.0-5.0	Tin	3.4U mg/Kg	A	B
DE059	SL-071-SA5B-SB-2.0-3.0	Tin	3.1U mg/Kg	A	B
DE059	SL-097-SA5B-SB-4.0-5.0	Tin	2.5U mg/Kg	A	B
DE059	SL-097-SA5B-SB-7.0-8.0	Tin	2.4U mg/Kg	A	B

Santa Susana Field Laboratory
Metals - Field Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

LDC #: 25750K4

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE059

Level IV

Laboratory: Lancaster Laboratories

Date: 7/6/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/12/11
II.	ICP/MS Tune	A	
III.	Calibration	A	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	SW	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	A	
X.	Furnace Atomic Absorption QC	N	NG + 4/15/11
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	SW	(6,7)
XV.	Field Blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

SO.1

1 st	SL-104-SA5B-SB-4.0-5.0	1 st	SL-097-SA5B-SB-7.0-8.0	21	POS	31	
2 nd	SL-104-SA5B-SB-9.0-10.0	12	SL-092-SA5B-SB-4.0-5.0MS	22		32	
3 rd	SL-098-SA5B-SB-4.0-5.0	13	SL-092-SA5B-SB-4.0-5.0MSD	23		33	
4 th	SL-103-SA5B-SB-4.0-5.0	14	SL-092-SA5B-SB-4.0-5.0DUP	24		34	
5 th	SL-103-SA5B-SB-9.0-10.0	15		25		35	
6 th	SL-092-SA5B-SB-4.0-5.0	16		26		36	
7 th	DUP17-SA5B-QC-011211	17		27		37	
8 th	SL-072-SA5B-SB-4.0-5.0	18		28		38	
9 th	SL-071-SA5B-SB-2.0-3.0	19		29		39	
10 th	SL-097-SA5B-SB-4.0-5.0	20		30		40	

Notes: _____

Method: Metals (EPA SW 846 Method 6010B/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	☒	☐	☐	
Were %RSD of isotopes in the tuning solution $\leq 5\%$?	☒	☐	☐	
III. Calibration				
Were all instruments calibrated daily, each set-up time?	☒	☐	☐	
Were the proper number of standards used?	☒	☐	☐	
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	☒	☐	☐	
Were all initial calibration correlation coefficients > 0.995 ?	☒	☐	☐	
IV. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☒	☐	☐	
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	☒	☐	☐	
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	☒	☐	☐	
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	☒	☐	☐	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	☐	☒	☐	
Were the MS/MSD or duplicate relative percent differences (RPD) $\leq 20\%$ for waters and $\leq 35\%$ for soil samples? A control limit of $\pm RL$ ($\pm 2X RL$ for soil) was used for samples that were $\leq 5X$ the RL, including when only one of the duplicate sample values were $\leq 5X$ the RL.	☐	☒	☐	
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	☒	☐	☐	

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			/	
Do all applicable analyses have duplicate injections? (Level IV only)			/	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			/	
Were analytical spike recoveries within the 85-115% QC limits?			/	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL (ICP/MS)?	/			
Were all percent differences (%Ds) < 10%?		/		
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		/		
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	/	/		
If the %Rs were outside the criteria, was a reanalysis performed?	/			
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		/	/	
Were the performance evaluation (PE) samples within the acceptance limits?		/	/	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target analytes were detected in the field duplicates.	/			
XV. Field blanks				
Field blanks were identified in this SDG.		/	/	
Target analytes were detected in the field blanks.		/	/	

All circled elements are applicable to each sample.

[illegible]

Comments: Mercury by CVAA if performed

VALIDATION FINDINGS WORKSHEET

PB/ICB/CCB QUALIFIED SAMPLES

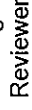
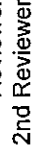
METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)

Soil preparation factor applied: 100x x MS: 2xdl

Sample Concentration units, unless otherwise noted: mg/Kg

Associated Samples: All Reason Code: B

Page: 1

Reviewer: 2nd Reviewer: 

Analyte	Maximum PB ^a (mg/Kg)	Maximum PB ^a (ug/L)	Maximum ICB/CCB ^a (ug/L)	Action Limit	1	2	3	4	5	6	7	8	9	10	11
Be			0.052	0.052											
Pb	0.066			0.33											
P	1.460			7.3											
Sn	1.319			6.595	2.2	2.3	2.4	2.3	2.4	2.4	2.3	3.4	3.1	2.5	2.4
Zn	0.854			4.27											

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note: a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were ICP interference check samples performed as required?

☒ N ☐ N/A

Were the AB solution percent recoveries (%R) within the control limits of 80-120% ?	Y	N	N/A
---	---	---	-----

LEVEL IV ONLY:

Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

[illegible]

Comments:

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a matrix spike analyzed for each matrix in this SDG? Y N N/A

Were matrix spike percent recoveries (%R) within the control limits of 75-125? Y N N/A

If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

Were all duplicate sample relative differences (RPD) $\leq 20\%$ for water samples and $\leq 35\%$ for soil samples?
 of 4 or more, no action was taken.
 N N/A

Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

* Post spike = 95%

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

⑨ N N/A

Q	N	N/A	W
---	---	-----	---

~~YN N/A~~
$$\frac{Y/N}{N/A}$$

Were all duplicate sample relative percent differences (RPD) $\leq 20\%$ for water samples and $\leq 35\%$ for soil samples? If no, see qualifications below. A control limit of $\pm R.L.$ ($\pm 2X R.L.$ for soil) was used for sample values that were $< 5X$ the R.L., including the case when only one of the duplicate sample values was $< 5X R.L.$. If field blanks were used for laboratory duplicates, note in the Overall Assessment.

LEVEL IV ONLY:

Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

[illegible]

Comments:

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

ⓐ N N/A If analyte concentrations were > 50X the MDL (ICP), or >100X the MDL (ICP/MS), was a serial dilution analyzed?

Were ICP serial dilution percent differences (%D) <10%?

Y N N/A

LEVEL IV ONLY:

Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

[illegible]

Comments:

LDC#: 25750K4

VALIDATION FINDINGS WORKSHEET **Field Duplicates**

Page: 1 of 2
 Reviewer: SO
 2nd Reviewer: 1

METHOD: Metals (EPA Method 6010B/7000)

Y N NA
Y N NA

Were field duplicate pairs identified in this SDG?

Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/Kg)		RPD (≤50)	
	6	7		
Aluminum	15100	17400	14	
Antimony	0.12	0.12	0	
Arsenic	4.7	6.9	38	
Barium	104	112	7	
Beryllium	0.62	0.77	22	
Boron	2.2	2.6	17	
Cadmium	0.18	0.35	64	NR JLT/A
Calcium	4170	3130	28	
Chromium	19.6	24.2	21	
Cobalt	6.3	7.2	13	
Copper	13.8	8.5	48	
Iron	24100	19600	21	
Lead	5.8	7.4	24	
Lithium	28.6	22.7	23	
Magnesium	5190	4200	21	
Manganese	300	288	4	
Mercury	0.0033U	0.0036	200%	J det WJ non detected / A
Molybdenum	0.47	0.60	24	
Nickel	11.9	14.7	21	

LDC#: 25750K4**VALIDATION FINDINGS WORKSHEET**
Field DuplicatesPage: 22 of 22
Reviewer: [Signature]
2nd Reviewer: [Signature]**METHOD:** Metals (EPA Method 6010B/7000)Y N NA
Y N NA

Were field duplicate pairs identified in this SDG?

Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/Kg)		RPD (≤50)	
	6	7		
Phosphorus	407	295	32	
Potassium	2870	2670	7	
Selenium	0.12	0.14	15	
Silver	0.026	0.046	56	NO JLT/A ✓
Sodium	188	192	2	
Strontium	21.7	21.0	3	
Thallium	0.39	0.31	23	
Tin	2.4	2.3	4	
Titanium	1190	1070	11	
Vanadium	37.7	46.0	20	
Zinc	69.2	72.3	22	
Zirconium	0.95	1.7	57	NO JLT/A ✓

V:\FIELD DUPLICATES\FD_inorganic\25750K4.wpd8

LDC #: 25780K4

VALIDATION FINDINGS WORKSHEET Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: CS
2nd Reviewer: L

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated		Reported		Acceptable (Y/N)
					%R		%R		
ICV	ICP (Initial calibration)	Sn	575.18	600	95.9		95.9		Y
ICV	ICP/MS (Initial calibration)	Cd	444.7	500	88.9		88.9		Y
ICV	CVAA (Initial calibration)	Hg	26	25	104		104		Y
CCV	ICP (Continuing calibration)	Pb	446.13	500	89.3		89.3		Y
CCV	ICP/MS (Continuing calibration)	V	253	280	101.2		101.2		Y
CCV	CVAA (Continuing calibration)	Hg	1.03	1	103		103		Y
	GFAA (Initial calibration)								
	GFAA (Continuing calibration)								

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 257814

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation WorksheetPage: 1 of 1
Reviewer: CS
2nd Reviewer: [Signature]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found} \times 100}{\text{True}}$$

Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation,
Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$

Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$$\%D = \frac{|I-SDR|}{I} \times 100$$

Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated		Reported		Acceptable (Y/N)
					%R / RPD / %D	%R / RPD / %D	%R / RPD / %D	%R / RPD / %D	
ICSPS	ICP interference check	As	20.6	20	103	103	103	103	Y
LCS	Laboratory control sample	Zn	996.5	1000	100	100	100	100	
12	Matrix spike	Be	0.9995 (SSR-SR)	0.8786	114	114	114	114	
14	Duplicate	8	407.3321	418.1731	3	3	3	3	
6	ICP serial dilution	Sr	197.63	20.05	2	2	2	2	Y

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750KY**VALIDATION FINDINGS WORKSHEET**
Sample Calculation VerificationPage: 1 of 3
Reviewer: CE
2nd reviewer: IN**METHOD:** Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for Al were recalculated and verified using the following equation:Concentration = $\frac{(RD)(FV)(Dil)}{(In. Vol.)}$

Recalculation:

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

$$\frac{(100ml) 167.90378 mg/L}{0.90 (1.00g)} = 186.56 mg/L$$

#	Sample ID	Analyte	Reported Concentration (mg/L)	Calculated Concentration (mg/L)	Acceptable (Y/N)
	1	Al	18700	18700	Y
		Sb	0.087	0.087	
		As	5.7	5.7	
		Ba	123	123	
		Be	0.84	0.84	
		B	4.8	4.8	
		Ca	0.20	0.20	
		Ca	6880	6880	
		Cr	27.2	27.2	
		Co	7.8	7.8	
		Cu	9.6	9.6	
		Fe	21300	21300	
		Pb	9.2	9.2	
		Li	24.2	24.2	
		Mg	5050	5050	
		Mn	300	300	
		Mo	0.60	0.60	
		Ni	16.0	16.0	
		P	556	556	
		K	3800	3800	

Note: _____

LDC #: 25750Ry

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

Page: 2 of 3
Reviewer: 02
2nd reviewer: W

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for 6: Zr were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In. Vol.)}$

Recalculation:

RD = Raw data concentration
 FV = Final volume (ml)
 In. Vol. = Initial volume (ml) or weight (G)
 Dil = Dilution factor

$$\frac{(100\text{ mL})(0.00864\text{ mg/L})}{0.884(1.03\text{ g})} = 0.95\text{ mg/kg}$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	Se	0.17	0.17	Y
		As	0.052	0.052	
		Na	113	113	
		Sc	24.0	24.0	
		Tl	0.33	0.33	
		Sn	2.2	2.2	
		Ti	1090	1090	
		V	50.9	50.9	
		Zn	73.6	73.6	
		Zr	2.4	2.4	
	6	Al	15100	15100	
		Sb	0.12	0.12	
		As	4.7	4.7	
		Br	104	104	
		Pb	0.62	0.62	
		B	2.2	2.2	
		Cd	0.18	0.18	
		Co	4170	4170	
		Cr	19.6	19.6	Y

Note: _____

LDC #: 2575015**VALIDATION FINDINGS WORKSHEET**
Sample Calculation VerificationPage: 3 of 3Reviewer: dr2nd reviewer: W**METHOD:** Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A

Have results been reported and calculated correctly?

Y N N/A

Are results within the calibrated range of the instruments and within the linear range of the ICP?

Y N N/A

Are all detection limits below the CRDL?

Detected analyte results for _____ were recalculated and verified using the following equation:

$$\text{Concentration} = \frac{(\text{RD})(\text{FV})(\text{Dil})}{(\text{In. Vol.})}$$

Recalculation:

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

see previous page

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	6	Co	6.3	6.3	Y
		Cu	13.8	13.8	Y
		Fe	24100	24100	Y
		Pb	5.8	5.6	Y
		Li	286	286	Y
		Mg	5190	5190	Y
		Mn	300	300	Y
		Mo	0.47	0.47	Y
		Ni	11.9	11.9	Y
		P	407	407	Y
		K	2870	2870	Y
		Se	0.12	0.12	Y
		As	0.026	0.026	Y
		Ni	188	188	Y
		Sr	21.7	21.7	Y
		Tl	0.39	0.39	Y
		Sn	2.4	2.4	Y
		Ti	1190	1190	Y
		V	37.7	37.7	Y
		Zn	69.2	69.2	Y
		Zr	0.95	0.95	Y

Note: _____

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: January 12, 2011

LDC Report Date: July 18, 2011

Matrix: Soil

Parameters: Wet Chemistry

Validation Level: Level IV

Laboratory, Area IV: Lancaster Laboratories

Sample Delivery Group (SDG): DE059

Sample Identification

SL-104-SA5B-SB-4.0-5.0
SL-104-SA5B-SB-9.0-10.0
SL-098-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-9.0-10.0
SL-092-SA5B-SB-4.0-5.0
DUP17-SA5B-QC-011211
SL-072-SA5B-SB-4.0-5.0
SL-071-SA5B-SB-2.0-3.0
SL-097-SA5B-SB-4.0-5.0
SL-097-SA5B-SB-7.0-8.0
SL-092-SA5B-SB-4.0-5.0MS
SL-092-SA5B-SB-4.0-5.0DUP
SL-097-SA5B-SB-7.0-8.0MS
SL-097-SA5B-SB-7.0-8.0DUP

Introduction

This data review covers 15 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 9012B for Cyanide, EPA Method 300.0 for Nitrate and Fluoride, EPA SW 846 Method 7199 for Hexavalent Chromium, EPA SW 846 Method 9045C for pH, and EPA Method 314.0 for Perchlorate.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a Laboratory, Area IV deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

No field blanks were identified in this SDG.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	%R (Limits)	Flag	A or P
SL-097-SA5B-SB-7.0-8.0MS (SL-097-SA5B-SB-7.0-8.0)	Fluoride	62 (80-120)	J (all detects) UJ (all non-detects)	A

VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

All sample result verifications were acceptable

All analytes reported below the RL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE059	All analytes reported below the RL and above the MDL.	J (all detects)	A

IX. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

X. Field Duplicates

Samples SL-092-SA5B-SB-4.0-5.0 and DUP17-SA5B-QC-011211 were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD (Limits)	Flags	A or P
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
Fluoride	2.5 mg/L	3.7 mg/L	39 (≤50)	-	-
Nitrate as N	5.2 mg/L	5.9 mg/L	13 (≤50)	-	-
pH	7.25 units	7.25 units	0 (≤50)	-	-
Hexavalent chromium	0.40 mg/L	0.37 mg/L	8 (≤50)	-	-

Santa Susana Field Laboratory
Wet Chemistry - Data Qualification Summary - SDG DE059

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE029	SL-097-SA5B-SB-7.0-8.0	Fluoride	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE029	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)

Santa Susana Field Laboratory
Wet Chemistry – Laboratory Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Wet Chemistry - Field Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

LDC #: 25750K6
SDG #: DE059
Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET Level IV

Date: 1/11
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: (Analyte) Cyanide (EPA SW846 Method 9012B), Nitrate ~~X~~, Fluoride (EPA Method 300.0), Hexavalent Chromium (EPA SW846 Method 7199), ~~Oxidation-Reduction Potential (ASTM D1498)~~, pH (EPA Method 150.1/EPA SW846 Method 9045C) perchlorate (EPA 814.0)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/12/11
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IV.	Matrix Spike/Matrix Spike Duplicates	SW MS	
V.	Duplicates	A DUP	
VI.	Laboratory control samples	A LCS	
VII.	Sample result verification	A	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	SW (6,7)	
X.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-104-SA5B-SB-4.0-5.0	11	SL-097-SA5B-SB-7.0-8.0	21	PPS	31	
2	SL-104-SA5B-SB-9.0-10.0	12	SL-092-SA5B-SB-4.0-5.0MS	22		32	
3	SL-098-SA5B-SB-4.0-5.0	13	SL-092-SA5B-SB-4.0-5.0DUP	23		33	
4	SL-103-SA5B-SB-4.0-5.0	14	#11 MS	24		34	
5	SL-103-SA5B-SB-9.0-10.0	15	↓ Dup	25		35	
6	SL-092-SA5B-SB-4.0-5.0	16		26		36	
7	DUP17-SA5B-QC-011211	17		27		37	
8	SL-072-SA5B-SB-4.0-5.0	18		28		38	
9	SL-071-SA5B-SB-2.0-3.0	19		29		39	
10	SL-097-SA5B-SB-4.0-5.0	20		30		40	

Notes:

Method: Inorganics (EPA Method See cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. Calibration				
Were all instruments calibrated daily, each set-up time?	☒	☐	☐	
Were the proper number of standards used?	☒	☐	☐	
Were all initial calibration correlation coefficients > 0.995?	☒	☐	☐	
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	☒	☐	☐	
Were titrant checks performed as required? (Level IV only)	☐	☐	☒	
Were balance checks performed as required? (Level IV only)	☐	☐	☐	
III. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	☒	☐	☐	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	☒	☐	☐	
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL (≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were < 5X the CRDL.	☒	☐	☐	
V. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	☒	☐	☐	
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	☐	☒	☐	
Were the performance evaluation (PE) samples within the acceptance limits?	☐	☐	☒	

LDC #: 25750R6

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: cr
2nd Reviewer: AV

Validation Area	Yes	No	NA	Findings/Comments
<i>VII. Sample Result Verification</i>				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒	☐	☐	
Were detection limits < RL?	☒	☐	☐	
<i>VIII. Overall assessment of data</i>				
Overall assessment of data was found to be acceptable.	☒	☐	☐	
<i>IX. Field duplicates</i>				
Field duplicate pairs were identified in this SDG.	☒	☐	☐	
Target analytes were detected in the field duplicates.	☒	☐	☐	
<i>X. Field blanks</i>				
Field blanks were identified in this SDG.	☐	☒	☒	
Target analytes were detected in the field blanks.	☐	☐	☒	

Page: 1 of 1
Reviewer: CA
2nd Reviewer:

VALIDATION FINDINGS WORKSHEET

LDC #: 2575046
SDG #: 1

METHOD: Inorganics, EPA Method 505.0

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

ψ	N	N/A	Was a matrix spike analyzed for each matrix in this SDG?
	N	N/A	

Was a matrix spike analyzed for each matrix in this SDG?
Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

Were all duplicate sample relative percent differences (RPD) < 20% for water samples and <35% for soil samples?

LEVEL IV ONLY:

✓ N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

[illegible]

Comments:

LDC# 25750K6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

Inorganics, Method See Cover

Y/N NA
Y/N NA

Were field duplicate pairs identified in this SDG?

Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/L)		RPD (≤50)	
	6	7		
Fluoride	2.5	3.7	39	
Nitrate as N	5.2	5.9	13	
pH (units)	7.25	7.25	0	
Hexavalent Chromium	0.40	0.37	8	

V:\FIELD DUPLICATES\FD_inorganic\25750K6.wpd

LDC #: 2575016

Validation Findings Worksheet Initial and Continuing Calibration Calculation Verification

Page: 1 of 1

Reviewer: DL2nd Reviewer: DLMethod: Inorganics, Method See CoverThe correlation coefficient (r) for the calibration of ClO₄ was recalculated. Calibration date: 1/10/11

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found} \times 100}{\text{True}}$$

True

Where,

Found = concentration of each analyte measured in the analysis of the ICV or CCV solution

True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (ug/L)	Response	Recalculated	Reported	Acceptable (Y/N)
					r or r ²	r or r ²	
Initial calibration	ClO ₄	s1	2	0.001	1.000	0.999	Y
		s2	4.00	0.008			
		s3	10.00	0.022			
		s4	25.00	0.06			
		s5	100.00	0.265			
Calibration verification	CN	CCV	0.15	0.54	103	103	
Calibration verification	F	↓	1.5	1.5253	102	102	
Calibration verification	NO ₃ -N	↓	1.5	1.5495	103	103	↓

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 2575015

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: QR
2nd Reviewer: ✓

METHOD: Inorganics, Method See cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$$\%R = \frac{\text{Found} \times 100}{\text{True}}$$
 Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$$RPD = \frac{|S-D|}{(S+D)/2} \times 100$$
 Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated		Acceptable (Y/N)
					%R / RPD	Reported %R / RPD	
LC5	Laboratory control sample	ClO ₄	524	500	105	—	Y
12	Matrix spike sample	NO ₃ -N	10.6 (SSR-SR)	10	106	106	Y
13	Duplicate sample	Cr ⁶⁺	0.35	0.33	6	7	Y

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #:

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: 1 of 1

Reviewer: CS

2nd reviewer: LA

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?

Y	N	N/A	Are results within the calibrated range of the instruments?
---	---	-----	---

Y/N	N/A	Are all detection limits below the CRQL?
-----	-----	--

Compound (analyte) results for F 100 reported with a positive detect were recalculated and verified using the following equation: (1.039 + 0.001) = 1.040

Concentration =

Recalculation:

$$\frac{\left(\frac{0.029 + 0.004}{0.206}\right) 50 \text{ mL}}{(0.90)(59)} = 1.8 \text{ mg/kg}$$

$$\therefore y = 0.2060x - 2.0041$$

$$A_{\text{total}} = \text{Area}(85,356) + 1078557$$

$$\frac{(0.1004(85.356) + 0.78557)}{(25.29) 0.891} = 0.42 \text{ mg/kg}$$

[illegible]

Note: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory
Collection Date: January 12, 2011
LDC Report Date: July 8, 2011
Matrix: Soil/Water
Parameters: Total Petroleum Hydrocarbons as Gasoline
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE059

Sample Identification

SL-104-SA5B-SB-4.0-5.0
SL-104-SA5B-SB-9.0-10.0
SL-098-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-9.0-10.0
SL-092-SA5B-SB-4.0-5.0
DUP17-SA5B-QC-011211
SL-072-SA5B-SB-4.0-5.0
SL-071-SA5B-SB-2.0-3.0
SL-097-SA5B-SB-4.0-5.0
SL-097-SA5B-SB-7.0-8.0
TB-011211
SL-092-SA5B-SB-4.0-5.0MS
SL-092-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 13 soil samples and one water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Total Petroleum Hydrocarbons (TPH) as Gasoline.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as gasoline contaminants were found in the method blanks.

Sample TB-011211 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE059	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples SL-092-SA5B-SB-4.0-5.0 and DUP17-SA5B-QC-011211 were identified as field duplicates. No total petroleum hydrocarbons as gasoline were detected in any of the samples.

Santa Susana Field Laboratory**Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG DE059**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0 TB-011211	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory**Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG DE059**

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory**Total Petroleum Hydrocarbons as Gasoline - Field Blank Data Qualification Summary - SDG DE059**

No Sample Data Qualified in this SDG

LDC #: 25750K7 **VALIDATION COMPLETENESS WORKSHEET**
SDG #: DE059 Level IV
Laboratory: Lancaster Laboratories

Date: 7-5-11
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/12/11
II.	Initial calibration	A	9/6 RSD ≤ 20
III.	Calibration verification/ICV	A	ICV/CCV $\leq 20\%$
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS/D
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	ND	FD = 6 + 7
XIII.	Field blanks	ND	TB = 12

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-104-SA5B-SB-4.0-5.0 S	11	SL-097-SA5B-SB-7.0-8.0 S	21		31	11014A34A-BLK S
2	SL-104-SA5B-SB-9.0-10.0	12	TB-011211 W	22		32	11016A20-BLK W
3	SL-098-SA5B-SB-4.0-5.0	13	SL-092-SA5B-SB-4.0-5.0MS	23		33	
4	SL-103-SA5B-SB-4.0-5.0	14	SL-092-SA5B-SB-4.0-5.0MSD	24		34	
5	SL-103-SA5B-SB-9.0-10.0	15		25		35	
6	SL-092-SA5B-SB-4.0-5.0	16		26		36	
7	DUP17-SA5B-QC-011211	17		27		37	
8	SL-072-SA5B-SB-4.0-5.0	18		28		38	
9	SL-071-SA5B-SB-2.0-3.0	19		29		39	
10	SL-097-SA5B-SB-4.0-5.0	20		30		40	

Notes: _____

Method: X GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%?	/			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	/			
Did the initial calibration meet the curve fit acceptance criteria?	/			
Were the RT windows properly established?	/			
IV. Continuing calibration				
What type of continuing calibration calculation was performed? <u>✓</u> %D or %R				
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	/			
Were all the retention times within the acceptance windows?	/			
V. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	/			
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	/			
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	/			
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: [Signature]
2nd Reviewer: [Signature]

Validation Area	Yes	No	NA	Findings/Comments
Were performance evaluation (PE) samples performed?		/		
Were the performance evaluation (PE) samples within the acceptance limits?			/	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	/			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target compounds were detected in the field duplicates.		/		
XV. Field blanks				
Field blanks were identified in this SDG.	/			
Target compounds were detected in the field blanks.		/		

LDC #: 25750K7

SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC X HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C

Average CF = sum of the CF / number of standards

%RSD = $100 \cdot (SX)$

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (110 std)	CF (110 std)	CF (110 std)	CF (110 std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD
1	JGAL	1/6/11	GRO	7126	7126	7126	7126	8074	8074	5.9	5.9
2	JGAL	11/29/10	GRO	39008	39008	39008	39008	37329	37329	12.7	12.7
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750K7

SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: HA
2nd Reviewer: HA

METHOD: GC X HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = Initial calibration average CF
CF = Continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Cont.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	20016.0002	1/16/11	GRO	550.00	577.66	5.0	577.66	5.0
	340198.0002	1/17/11	GRO	220.00	193.96	11.8	193.96	11.8
2								
	340148.0016	1/17/11	GRO	220.00	202.63	7.9	202.63	7.9
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results VerificationMETHOD: X GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$ Where: SF = Surrogate Found
SS = Surrogate SpikedSample ID: 1

Surrogate	<u>Dakota</u> Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
<u>TFT</u>	<u>FD</u>	<u>718.78</u>	<u>546.2729</u>	<u>76</u>	<u>76</u>	<u>0</u>

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Notes: _____

VALIDATION FINDINGS WORKSHEET

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$ Where
 SSC = Spiked sample concentration
 SA = Spike added
 $\text{RPD} = (((\text{SSCMS} - \text{SSCMSD}) * 2) / ((\text{SSCMS} + \text{SSCMSD}))) * 100$
 MS = Matrix spike
 MSD = Matrix spike duplicate
 SC = Sample concentration
 SSC = Sample concentration

$$RPD = ((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD)) * 100$$

MS/MSD samples: 13/14

[illegible]

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

METHOD: X GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$

Where:
SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

$$RPD = (((SSCLCS - SSCLCSD) * 2) / (SSCLCS + SSCLCSD)) * 100$$

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 1106A20A-LCS17

[illegible]

Comments: Refer to Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

X	N	N/A
Y	N	N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds within 10% of the reported results?

$$\text{Concentration} = \frac{(A)(Fv)(Df)}{(Rf)(Vs \text{ or } Ws)(\%S/100)}$$

Example:

Sample ID. ALL Compound Name GRO

Concentration =

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor

RF= Average response factor of the compound

In the initial calibration

V_s = Initial volume of the sample

Ws= Initial weight of the sample

%S= Percent Solid

[illegible]

Comments:

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory
Collection Date: January 12, 2011
LDC Report Date: July 10, 2011
Matrix: Soil
Parameters: Total Petroleum Hydrocarbons as Extractables
Validation Level: Level IV
Laboratory: Lancaster Laboratories
Sample Delivery Group (SDG): DE059

Sample Identification

SL-104-SA5B-SB-4.0-5.0
SL-104-SA5B-SB-9.0-10.0
SL-098-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-9.0-10.0
SL-092-SA5B-SB-4.0-5.0
DUP17-SA5B-QC-011211
SL-072-SA5B-SB-4.0-5.0
SL-071-SA5B-SB-2.0-3.0
SL-097-SA5B-SB-4.0-5.0
SL-097-SA5B-SB-7.0-8.0
SL-092-SA5B-SB-4.0-5.0MS
SL-092-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 13 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-092-SA5B-SB-4.0-5.0MS/MSD (SL-092-SA5B-SB-4.0-5.0)	TPH as extractables (C21-C30)	-	-114 (49-123)	68 (≤20)	J (all detects) R (all non-detects)	A

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE059	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples SL-092-SA5B-SB-4.0-5.0 and DUP17-SA5B-QC-011211 were identified as field duplicates. No total petroleum hydrocarbons as extractables were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
TPH as extractables (C30-C40)	23	4.3	137 (≤50)	J (all detects)	A
TPH as extractables (C15-C20)	0.64	0.45U	200 (≤50)	J (all detects) UJ (all non-detects)	A
TPH as extractables (C21-C30)	7.3	2.6	95 (≤50)	J (all detects)	A

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary -
SDG DE059

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE059	SL-092-SA5B-SB-4.0-5.0	TPH as extractables (C21-C30)	J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DE059	SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211	TPH as extractables (C30-C40) TPH as extractables (C21-C30)	J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)
DE059	SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211	TPH as extractables (C15-C20)	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data
Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Field Blank Data Qualification
Summary - SDG DE059

No Sample Data Qualified in this SDG

LDC #: 25750K8

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE059

Level IV

Laboratory: Lancaster Laboratories

Date: 7-5-11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/12/11
II.	Initial calibration	A	9/0 PSD ≤ 20
III.	Calibration verification/ICV	A	ICV/ICV $\leq 20\%$
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	SW	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	SW	FD = 6 + 7
XIII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

ALL SOIL

1	SL-104-SA5B-SB-4.0-5.0	11	SL-097-SA5B-SB-7.0-8.0	21		31	1/0180024A-BLK
2	SL-104-SA5B-SB-9.0-10.0	12	SL-092-SA5B-SB-4.0-5.0MS	22		32	
3	SL-098-SA5B-SB-4.0-5.0	13	SL-092-SA5B-SB-4.0-5.0MSD	23		33	
4	SL-103-SA5B-SB-4.0-5.0	14		24		34	
5	SL-103-SA5B-SB-9.0-10.0	15		25		35	
6	SL-092-SA5B-SB-4.0-5.0	16		26		36	
7	DUP17-SA5B-QC-011211	17		27		37	
8	SL-072-SA5B-SB-4.0-5.0	18		28		38	
9	SL-071-SA5B-SB-2.0-3.0	19		29		39	
10	SL-097-SA5B-SB-4.0-5.0	20		30		40	

Notes:

Method: X GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%?	☒	☐	☐	
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	☒	☐	☐	
Did the initial calibration meet the curve fit acceptance criteria?	☒	☐	☐	
Were the RT windows properly established?	☒	☐	☐	
IV. Continuing calibration				
What type of continuing calibration calculation was performed? <u> </u> %D or <u> </u> %R	☒	☐	☐	
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☒	☐	☐	
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	☒	☐	☐	
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	☒	☐	☐	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	☒	☐	☐	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☒	☐	☐	
Was a MS/MSD analyzed every 20 samples of each matrix?	☒	☐	☐	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☒	☐	☐	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
X. Regional Quality Assurance and Quality Control				

Validation Area	Yes	No	NA	Findings/Comments
Were performance evaluation (PE) samples performed?		☒		
Were the performance evaluation (PE) samples within the acceptance limits?			☒	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒			
XII. System performance				
System performance was found to be acceptable.	☒			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	☒			
Target compounds were detected in the field duplicates.	☒			
XV. Field blanks				
Field blanks were identified in this SDG.		☒		
Target compounds were detected in the field blanks.			☒	

LDC #: 2575043
SDG #: See cover

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [Signature]
2nd reviewer: [Signature]

METHOD: ☒ GC ☐ HPLC

☒ Y/N N/A Were field duplicate pairs identified in this SDG?
☒ Y/N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (mg/kg)		%RPD Limit 50	Qualification Parent only / All Samples
	6	7		
C30-C40	23	4.3	134	J det S/A (FD)
C15-C20	0.64	0.450	200	J/US/A
C21-C30	7.3	2.6	95	J det S/A

Compound	Concentration ()		%RPD Limit	Qualification Parent only / All Samples

LDC #: 25750KB

SDG #: See Cover

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC ☒ HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C

Average CF = sum of the CF/number of standards

%RSD = $100 \cdot (S/X)$

A = Area of compound,

C = Concentration of compound,

S = Standard deviation of the CF

X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF	(std)	CF	(std)	Average CF (Initial)		Average CF (Initial)	%RSD
1	ICX	12/24/10	CB-C40	13691		13691		14229		14229	4.6
											4.6
2											
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750 RB
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC X HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. CF} - \text{CF}/\text{ave. CF})$
CF = A/C
Where: ave. CF = Initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Comp.	Reported		Recalculated	
					CF (conc.) CCV	%D	CF (conc.) CCV	%D
1	621.46 R	1/2/11	C8-C40	575.96	640.57	11.2	640.57	11.2
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 2575028

VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

Page: 1 of 1

Reviewer: [Signature]

2nd reviewer: [Signature]

METHOD: ☒ GC ☐ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$ Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 1

Surrogate	Detector Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Chlorobenzene	FID	1.00	0.809842	81	81	0
O-Terphenyl	FID	1.00	0.979393	98	98	0

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Notes:

METHOD: ~~X~~ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$

$$RPD = (((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD)) * 100$$

MS/MSD samples: 2/15

Where

SSC = Spiked sample concentration
SC = Sample concentration
SA = Spike added

MS = Matrix spike
MSD = Matrix spike duplicate

[illegible]

Comments: Refer to Matrix Spike/Matrix Spike Duplicates worksheet for list of qualifications and associated samples when reported results do not agree with in 10.0% of the recalculated results.

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

LCS/LCSD samples: 11080024A-LCS

LCSC LCN0w.wpd

METHOD: ☒ GC ☐ HPLC

X	N	N/A
Y	N	N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds within 10% of the reported results?

$$\text{Concentration} = \frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$$

Example:

Sample ID.
Compound Name C30-C40

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor

RF= Average response factor of the compound
In the initial calibration

V_s = Initial volume of the sample

V_s = Initial volume of the sample

Ws= Initial weight of
%S= Percent Solid

[illegible]

Comments:

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: January 12, 2011

LDC Report Date: July 10, 2011

Matrix: Soil

Parameters: Explosives

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE059

Sample Identification

SL-104-SA5B-SB-4.0-5.0
SL-104-SA5B-SB-9.0-10.0
SL-098-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-9.0-10.0
SL-092-SA5B-SB-4.0-5.0
DUP17-SA5B-QC-011211
SL-072-SA5B-SB-4.0-5.0
SL-071-SA5B-SB-2.0-3.0
SL-097-SA5B-SB-4.0-5.0
SL-097-SA5B-SB-7.0-8.0
SL-092-SA5B-SB-4.0-5.0MS
SL-092-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 13 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8330A for Explosives.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed for the primary (quantitation) column and confirmation column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at the required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No explosive contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE059	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples SL-092-SA5B-SB-4.0-5.0 and DUP17-SA5B-QC-011211 were identified as field duplicates. No explosives were detected in any of the samples.

Santa Susana Field Laboratory
Explosives - Data Qualification Summary - SDG DE059

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Explosives - Laboratory Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Explosives - Field Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

LDC #: 25750K40 **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE059

Level IV

Laboratory: Lancaster Laboratories

Date: 7-5-11

Page: 1 of 1

Reviewer: *ket*2nd Reviewer: *←***METHOD:** HPLC Explosives (EPA SW 846 Method 8330A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/12/11
II.	Initial calibration	A	%RSD $\leq$ 20, CV
III.	Calibration verification/ICV	A	ICV/CCV $\leq$ 2090
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS/D
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	ND	FD $\geq$ 6+7
XIII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

ALL soil

1	SL-104-SA5B-SB-4.0-5.0	11	SL-097-SA5B-SB-7.0-8.0	21		31	110170011A-BLLA
2	SL-104-SA5B-SB-9.0-10.0	12	SL-092-SA5B-SB-4.0-5.0MS	22		32	
3	SL-098-SA5B-SB-4.0-5.0	13	SL-092-SA5B-SB-4.0-5.0MSD	23		33	
4	SL-103-SA5B-SB-4.0-5.0	14		24		34	
5	SL-103-SA5B-SB-9.0-10.0	15		25		35	
6	SL-092-SA5B-SB-4.0-5.0	16		26		36	
7	DUP17-SA5B-QC-011211	17		27		37	
8	SL-072-SA5B-SB-4.0-5.0	18		28		38	
9	SL-071-SA5B-SB-2.0-3.0	19		29		39	
10	SL-097-SA5B-SB-4.0-5.0	20		30		40	

Notes: _____

Method: GC ☒ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒			
Cooler temperature criteria was met.	☒			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%?	☒			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	☒			
Did the initial calibration meet the curve fit acceptance criteria?	☒			
Were the RT windows properly established?	☒			
IV. Continuing calibration				
What type of continuing calibration calculation was performed? ☒ %D or ☐ %R				
Was a continuing calibration analyzed daily?	☒			
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	☒			
Were all the retention times within the acceptance windows?	☒			
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒			
Was a method blank analyzed for each matrix and concentration?	☒			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☒			
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	☒			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	☒			
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	☒			
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☒			
Was a MS/MSD analyzed every 20 samples of each matrix?	☒			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☒			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒			
Was an LCS analyzed per extraction batch?	☒			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒			
IX. Regional Quality Assurance and Quality Control				

Validation Area	Yes	No	NA	Findings/Comments
Were performance evaluation (PE) samples performed?		/		
Were the performance evaluation (PE) samples within the acceptance limits?			/	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	/			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target compounds were detected in the field duplicates.		/		
XV. Field blanks				
Field blanks were identified in this SDG.		/		
Target compounds were detected in the field blanks.			/	

LDC #: 25750K40
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: MA
2nd Reviewer: CA

METHOD: GC HPLC X

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
Average CF = $\text{sum of the CF}/\text{number of standards}$
%RSD = $100 \cdot (S/X)$
A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (500 std)	CF (100 std)	CF (500 std)	CF (100 std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD
1	ICAL	11/2/11	HMX (Ch.A) 24,6-TNT $\downarrow$ HMX (Ch.B)	—	See	1.93	1.93	2.02	2.02	6.0	6.0
				1.93	1.93	8.90	8.90	9.60	9.60	10.1	10.1
2			24,6-TNT $\downarrow$	1.94	1.94	1.94	1.94	1.95	1.95	8.0	8.0
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #
SDG#

25750640
see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: EPA 8330

Parameter: HMX

Order of regression: Linear

Date	Channel	Compound	Points	x area	y conc
12-Jan-11	Ch A	HMX	Point 1	3969.8	30.00
			Point 2	22855	100
			Point 3	188320.9	500
			Point 4	391791.3	1000
			Point 5	802859.10	2000

Regression Output: Regression Output:		Reported
Constant	-14069.15904	c =
R Squared	0.99987	r ² = 0.99900
X Coefficient(s)	407.75259	b(X) a(X ²)

LDC #: 25750290
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC HPLC X

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 \cdot (\text{ave. CF} \cdot \text{CF}) / \text{ave. CF}$$

$$\text{CF} = A/C$$

Where: ave. CF = Initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV conc.	Reported		Recalculated	
					CF/Comp. CCV	%D	CF/Comp. CCV	%D
1	3E12010.272	1/19/11	HMX (CL.A) 24,6-TNT ↓	500.00	494.63	1.1	494.63	1.1
				500.50	476.04	4.9	476.04	4.9
				500.00				
2	3E12010.510	1/20/11	HMX (CL.A) 24,6-TNT ↓	493.50	498.35	0.3	498.35	0.3
				500.50	479.30	4.2	479.30	4.2
3	3E12010.634	1/20/11	HMX (CL.A) 24,6-TNT ↓	1000.00	1003.83	0.4	1003.83	0.4
				1001.00	968.84	3.2	968.84	3.2
4	3E12010.272	1/19/11	HMX (CL.B) 24,6-TNT ↓	500.00	478.52	4.3	478.52	4.3
				500.50	494.28	1.2	494.28	1.2

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750440
SDG #: Sec Cover

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC HPLC ☒

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = Initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	3C12010.51P	1/20/11	HMX (2.6) 2,4,6-TNT ↓	500.00 500.50	471.37 500.19	5.7 0.1	471.37 500.19	5.7 0.1
2	3C12010.62P	1/20/11	HMX (2.6) 2,4,6-TNT ↓	1000.00 1001.00	939.02 1005.11	6.6 0.4	939.02 1005.11	6.6 0.4
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750k40VALIDATION FINDINGS WORKSHEET
Surrogate Results VerificationPage: 1 of 1Reviewer: ht2nd reviewer: CMETHOD: GC X HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$ Where: SF = Surrogate Found
SS = Surrogate SpikedSample ID: 11

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
2-NMX	A	1828	2047.36	116/112	112	0

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Notes: _____

LDC #: 25750 1240

VALIDATION FINDINGS WORKSHEET Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC ☒ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 * ((\text{SSC} - \text{SC}) / \text{SA})$$

$$\text{RPD} = (((\text{SSCMS} - \text{SSCMSD}) * 2) / ((\text{SSCMS} + \text{SSCMSD}))) * 100$$

MS/MSD samples: 12/13

Where

SSC = Spiked sample concentration
 SC = Sample concentration
 SA = Spike added

MS = Matrix spike
 MSD = Matrix spike duplicate

Compound	Spike Added		Sample Conc.		Spike Sample Concentration		Matrix spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD	MS	MSD	MS	MSD	Percent Recovery		Percent Recovery		RPD	
							Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)												
Diesel (8015)												
Benzene (8021B)												
Methane (RSK-175)												
2,4-D (8151)												
Dinoseb (8151)												
Naphthalene (8310)												
Anthracene (8310)												
HMX (8330)	2000.25	2000.25	ND		1931.82	1782.72	97	97	89	89	8	8
2,4,6-Trinitrotoluene (8330)	1999.2	1999.2	ND		2135.66	2037.22	107	107	102	102	5	5

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC XHPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$

Where: SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

SA = Spike added

LCS = Laboratory Control Sample

$$RPD = (((SSCLCS - SSCLCSD) * 2) / (SSCLCS + SSCLCSD)) * 100$$

LCDSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 110170011A-LCS/D

[illegible]

Comments: Refer to Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750k40

METHOD: GC ~~HPLC~~

N N/A
N N/A

Were all reported results recalculated and verified for all level IV samples?
Were all recalculated results for detected target compounds within 10% of the reported results?

$$\text{Concentration} = \frac{(A)(Fv)(df)}{(Rf)(Vs \text{ or } Ws)(\%S/100)}$$

Example:

Sample ID. ALL Compound Name ALL

Concentration = _____

A= Area of height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound
in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

[illegible]

Comments: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: January 12, 2011

LDC Report Date: July 8, 2011

Matrix: Soil

Parameters: Terphenyls

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE059

Sample Identification

SL-104-SA5B-SB-4.0-5.0
SL-104-SA5B-SB-9.0-10.0
SL-098-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-9.0-10.0
SL-092-SA5B-SB-4.0-5.0
DUP17-SA5B-QC-011211
SL-072-SA5B-SB-4.0-5.0
SL-071-SA5B-SB-2.0-3.0
SL-097-SA5B-SB-4.0-5.0
SL-097-SA5B-SB-7.0-8.0
SL-092-SA5B-SB-4.0-5.0MS
SL-092-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 13 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Terphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No terphenyl contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

The QAPP reporting limits (RL) were met with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG DE059	o-Terphenyl m-Terphenyl p-Terphenyl	Laboratory reporting limit reported at 3.5 mg/Kg.	Reporting limit should be reported at 0.167 mg/Kg per the QAPP.	None None None	P

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE059	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples SL-092-SA5B-SB-4.0-5.0 and DUP17-SA5B-QC-011211 were identified as field duplicates. No terphenyls were detected in any of the samples.

Santa Susana Field Laboratory
Terphenyls - Data Qualification Summary - SDG DE059

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	o-Terphenyl m-Terphenyl p-Terphenyl	None None None	P	Compound quantitation and CRQLs (*IX)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Terphenyls - Laboratory Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Terphenyls - Field Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

LDC #: 25750K41 **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE059

Level IV

Laboratory: Lancaster Laboratories

Date: 7-5-11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC Terphenyls (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/12/11
II.	Initial calibration	A	1/6/12/11 = 20
III.	Calibration verification/lev	A	Dev/CCV = 20%
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	SW A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	ND	FD = 6 + 7
XIII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

ALL 507

1	SL-104-SA5B-SB-4.0-5.0	11	SL-097-SA5B-SB-7.0-8.0	21		31	110190008A-BLK
2	SL-104-SA5B-SB-9.0-10.0	12	SL-092-SA5B-SB-4.0-5.0MS	22		32	
3	SL-098-SA5B-SB-4.0-5.0	13	SL-092-SA5B-SB-4.0-5.0MSD	23		33	
4	SL-103-SA5B-SB-4.0-5.0	14		24		34	
5	SL-103-SA5B-SB-9.0-10.0	15		25		35	
6	SL-092-SA5B-SB-4.0-5.0	16		26		36	
7	DUP17-SA5B-QC-011211	17		27		37	
8	SL-072-SA5B-SB-4.0-5.0	18		28		38	
9	SL-071-SA5B-SB-2.0-3.0	19		29		39	
10	SL-097-SA5B-SB-4.0-5.0	20		30		40	

Notes:

Method: *X* GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	<i>/</i>			
Cooler temperature criteria was met.	<i>/</i>			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<i>/</i>			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%?	<i>/</i>			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?		<i>/</i>		
Did the initial calibration meet the curve fit acceptance criteria?			<i>/</i>	
Were the RT windows properly established?	<i>/</i>			
IV. Continuing calibration				
What type of continuing calibration calculation was performed? <i>%D</i> or <i>%R</i>				
Was a continuing calibration analyzed daily?	<i>/</i>			
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	<i>/</i>			
Were all the retention times within the acceptance windows?	<i>/</i>			
V. Blanks				
Was a method blank associated with every sample in this SDG?	<i>/</i>			
Was a method blank analyzed for each matrix and concentration?	<i>/</i>			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		<i>/</i>		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	<i>/</i>			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			<i>/</i>	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			<i>/</i>	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<i>/</i>			
Was a MS/MSD analyzed every 20 samples of each matrix?	<i>/</i>			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<i>/</i>			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	<i>/</i>			
Was an LCS analyzed per extraction batch?	<i>/</i>			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<i>/</i>			
IX. Regional Quality Assurance and Quality Control				

Validation Area	Yes	No	NA	Findings/Comments
Were performance evaluation (PE) samples performed?		☒		
Were the performance evaluation (PE) samples within the acceptance limits?			☒	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒			
XII. System performance				
System performance was found to be acceptable.	☒			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	☒			
Target compounds were detected in the field duplicates.		☒		
XV. Field blanks				
Field blanks were identified in this SDG.		☒		
Target compounds were detected in the field blanks.			☒	

METHOD: X GC HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?

Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

☒ N ☐ N/A

[illegible]

Comments: See sample calculation verification worksheet for recalculations

LDC #: 2575064
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC X HPLC

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = $100 \cdot (S/X)$
A = Area of compound
C = Concentration of compound
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (6) std	CF (6) std	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD	Average CF (Initial)	%RSD
1	ISAC	1/20/10	O-Terphenyl	2.55	4	2.55	4	2.54	4	2.54	0.8
2											
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750641
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC X HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$$
$$\text{CF} = A/C$$

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Comp	Reported		Recalculated	
					CF/Comp. CCV	%D	CF/Comp. CCV	%D
1	R020.10R	1/20/11	O-Terphenyl	32.28	32.42	1.1	32.62	1.1
	R020.21R	1/21/11	O-Terphenyl	32.28	33.14	2.7	33.14	2.7
2								
	R020.32R	1/21/11	O-Terphenyl	32.28	33.20	2.8	33.20	2.8
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25450K41**VALIDATION FINDINGS WORKSHEET**
Surrogate Results VerificationPage: 1 of 1Reviewer: [Signature]2nd reviewer: [Signature]METHOD: X GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$ Where: SF = Surrogate Found
SS = Surrogate SpikedSample ID: 11

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
N-Tricontane	2B5	0.33	0.331929	100	100	0

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Notes: _____

METHOD: ~~X~~ GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$

$$RPD = (((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD)) * 100$$

MS/MSD samples: 12/13

Compound	Spike Added (mg/kg)		Sample Conc. (mg/kg)	Spike Sample Concentration (mg/kg)		Matrix spike		Matrix Spike Duplicate		MS/MSD	
	MS	MSD		MS	MSD	Percent Recovery		Reported	Recalc.	Reported	Recalc.
						Reported	Recalc.				
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
o-Terphenyl	1.67	1.67	ND	1.7	1.7	88	88	89	89	1	1

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of duplicates.

Sample ID	Sample Name	Sample Type	Sample Date	Sample Location	Sample Status	Sample Notes
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35
36	37	38	39	40	41	42
43	44	45	46	47	48	49
50	51	52	53	54	55	56
57	58	59	60	61	62	63
64	65	66	67	68	69	70
71	72	73	74	75	76	77
78	79	80	81	82	83	84
85	86	87	88	89	90	91
92	93	94	95	96	97	98
99	100	101	102	103	104	105
106	107	108	109	110	111	112
113	114	115	116	117	118	119
120	121	122	123	124	125	126
127	128	129	130	131	132	133
134	135	136	137	138	139	140
141	142	143	144	145	146	147
148	149	150	151	152	153	154
155	156	157	158	159	160	161
162	163	164	165	166	167	168
169	170	171	172	173	174	175
176	177	178	179	180	181	182
183	184	185	186	187	188	189
190	191	192	193	194	195	196
197	198	199	200	201	202	203
204	205	206	207	208	209	210
211	212	213	214	215	216	217
218	219	220	221	222	223	224
225	226	227	228	229	230	231
232	233	234	235	236	237	238
239	240	241	242	243	244	245
246	247	248	249	250	251	252
253	254	255	256	257	258	259
260	261	262	263	264	265	266
267	268	269	270	271	272	273
274	275	276	277	278	279	280
281	282	283	284	285	286	287
288	289	290	291	292	293	294
295	296	297	298	299	300	301
302	303	304	305	306	307	308
309	310	311	312	313	314	315
316	317	318	319	320	321	322
323	324	325	326	327	328	329
330	331	332	333	334	335	336
337	338	339	340	341	342	343
344	345	346	347	348	349	350
351	352	353	354	355	356	357
358	359	360	361	362	363	364
365	366	367	368	369	370	371
372	373	374	375	376	377	378
379	380	381	382	383	384	385
386	387	388	389	390	391	392
393	394	395	396	397	398	399
400	401	402	403	404	405	406
407	408	409	410	411	412	413

LDC # 2575044

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = $100 \cdot (SSC - SC) / SA$

RPD = $((SSCLCS - SSCLCSD) \cdot 2) / (SSCLCS + SSCLCSD) \cdot 100$

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory Control Sample

SC = Sample concentration

LCS/D = Laboratory Control Sample duplicate

LCS/LCSD samples: 11019008A-LCS

Compound	Spike Added (mg/kg)		Spike Sample Concentration		LCS		LCSD		Percent Recovery		Percent Recovery		RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)														
Diesel (8015)														
Benzene (8021B)														
Methane (RSK-175)														
2,4-D (8151)														
Dinoseb (8151)														
Naphthalene (8310)														
Anthracene (8310)														
HMX (8330)														
2,4,6-Trinitrotoluene (8330)														
<u>o-ter-phenyl</u>	<u>1.67</u>	<u>n/a</u>	<u>1.6</u>	<u>n/a</u>	<u>95</u>	<u>95</u>								

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC # 0575064

METHOD: ~~GC~~ HPLC

Y	N	N/A
Y	N	N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds within 10% of the reported results?

$$\text{Concentration} = \frac{(A)(Fv)(Df)}{(Rf)(Vs \text{ or } Ws)(\%S/100)}$$

Example:

Sample ID. ALL Compound Name ALL

Concentration =

A= Area of height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor

RF= Average response factor of the compound
In the initial calibration

V_s = Initial volume of the sample

Ws= Initial weight of the sample

%S= Percent Solid

[illegible]

Comments:

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: January 12, 2011

LDC Report Date: July 7, 2011

Matrix: Soil

Parameters: Alcohols

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE059

Sample Identification

SL-104-SA5B-SB-4.0-5.0
SL-104-SA5B-SB-9.0-10.0
SL-098-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-9.0-10.0
SL-092-SA5B-SB-4.0-5.0
DUP17-SA5B-QC-011211
SL-072-SA5B-SB-4.0-5.0
SL-071-SA5B-SB-2.0-3.0
SL-097-SA5B-SB-4.0-5.0
SL-097-SA5B-SB-7.0-8.0
SL-092-SA5B-SB-4.0-5.0MS
SL-092-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 13 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Alcohols.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No alcohol contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-092-SA5B-SB-4.0-5.0MS/MSD (SL-092-SA5B-SB-4.0-5.0)	Methanol	-	-	26 (≤20)	J (all detects)	A
SL-092-SA5B-SB-4.0-5.0MS/MSD (SL-092-SA5B-SB-4.0-5.0)	Isopropanol	-	73 (75-125)	-	J (all detects) UJ (all non-detects)	A

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE059	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples SL-092-SA5B-SB-4.0-5.0 and DUP17-SA5B-QC-011211 were identified as field duplicates. No alcohols were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	SL-092-SA5B-SB-4.0-5.0	DUP17-SA5B-QC-011211			
Methanol	110U	140	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Alcohols - Data Qualification Summary - SDG DE059

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE059	SL-092-SA5B-SB-4.0-5.0	Methanol	J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD)
DE059	SL-092-SA5B-SB-4.0-5.0	Isopropanol	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DE059	SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211	Methanol	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Alcohols - Laboratory Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Alcohols - Field Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

LDC #: 25750K43 **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE059

Level IV

Laboratory: Lancaster Laboratories

Date: 7/06/11

Page: 1 of 1

Reviewer: *SV*2nd Reviewer: *SV***METHOD:** GC Alcohols (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/12/11
II.	Initial calibration	A	$\% RSD \leq 20\%$
III.	Calibration verification/ICV	A	$CV/IN \leq 20\%$
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	SW	
VII.	Laboratory control samples	A	US
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	SW	$D = 6.7$
XIII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

Soil

1	SL-104-SA5B-SB-4.0-5.0	11	SL-097-SA5B-SB-7.0-8.0	21	PBK19019	31	
2	SL-104-SA5B-SB-9.0-10.0	12	SL-092-SA5B-SB-4.0-5.0MS	22		32	
3	SL-098-SA5B-SB-4.0-5.0	13	SL-092-SA5B-SB-4.0-5.0MSD	23		33	
4	SL-103-SA5B-SB-4.0-5.0	14		24		34	
5	SL-103-SA5B-SB-9.0-10.0	15		25		35	
6	SL-092-SA5B-SB-4.0-5.0 ^D	16		26		36	
7	DUP17-SA5B-QC-011211 ^D	17		27		37	
8	SL-072-SA5B-SB-4.0-5.0	18		28		38	
9	SL-071-SA5B-SB-2.0-3.0	19		29		39	
10	SL-097-SA5B-SB-4.0-5.0	20		30		40	

Notes:

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%?	☒	☐	☐	
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	☐	☒	☐	
Did the initial calibration meet the curve fit acceptance criteria?	☐	☐	☒	
Were the RT windows properly established?	☒	☐	☐	
III. Continuing calibration				
What type of continuing calibration calculation was performed? <u>%D</u> or <u>%R</u>	☒	☐	☐	
Was a continuing calibration analyzed daily?	☒	☐	☐	
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	☒	☐	☐	
Were all the retention times within the acceptance windows?	☒	☐	☐	
IV. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
V. Surrogate spikes				
Were all surrogate %R within the QC limits?	☒	☐	☐	
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	☐	☐	☒	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	☐	☐	☒	
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☒	☐	☐	
Was a MS/MSD analyzed every 20 samples of each matrix?	☒	☐	☐	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☒	☐	
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	
Was an LCS analyzed per extraction batch?	☒	☐	☐	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	☒	☐	☐	
IX. Regional Quality Assurance and Quality Control				

Validation Area	Yes	No	NA	Findings/Comments
Were performance evaluation (PE) samples performed?		☒		
Were the performance evaluation (PE) samples within the acceptance limits?			☒	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	☒			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	☒			
XII. System performance				
System performance was found to be acceptable.	☒			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	☒			
Target compounds were detected in the field duplicates.	☒			
XV. Field blanks				
Field blanks were identified in this SDG.			☒	
Target compounds were detected in the field blanks.			☒	

METHOD: GC HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?

☒ N ☐ A

Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?	Y	N	N/A
--	---	---	-----

$\mathbf{Y(N)}$	$\mathbf{N(N/A)}$
Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?	

[illegible]

VALIDATION FINDINGS WORKSHEET
Field DuplicatePage: 1 of 1
Reviewer: JVG
2nd Reviewer: A**METHOD:** GC Alcohols (EPA SW 846 Method 8015B)Y/N/NA

Were field duplicate pairs identified in this SDG?

Y/N/NA

Were target analytes detected in the field duplicate pairs?

Compound	Concentration (ug/kg)		(<50%) RPD	Qualifications (Parent only)
	6	7		
Methanol	110U	140	200	J/UJ/A (FD)

LDC #: 25750 K43

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: A

METHOD: GC ✓ HPLC

The calibration factors (CF), average CF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

CF = A/C

average CF = sum of the CF/number of standards

%RSD = $100 * (S/X)$

Where:

H = Height of compound

C = Concentration of compound

S = Standard deviation of calibration factors

X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported (CF 5000 std)	Recalculated (CF 5000 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/20/2011	Methanol	4.21	4.21	4.61	4.61	9.7	9.7
	H2739A								

C	H
5000	21063.39

Conc	Methanol
1000	5.31
2500	4.77
5000	4.21
10000	4.29
20000	4.47
X=	4.61
S=	0.447

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC # 750 k43VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results VerificationPage: 1 of 1
Reviewer: JVG
2nd Reviewer: AMETHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration percent difference (%D) values were recalculated for the compounds identified below using the following calculation:

Percent difference (%D) = $100 * (N - C) / N$

Where:

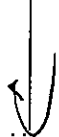
N = Initial Calibration Factor or Nominal Amount

C = Calibration Factor from Continuing Calibration Standard or Calculated Amount

#	Standard ID	Calibration Date	Compound	CCV Conc	Reported Conc	Recalculated Conc	Reported % D	Recalculated %D
1	0024	1/20/2011	Methanol	5000	4556.67	4556.40	8.9	8.9
2	0035	1/20/2011	Methanol	5000	4007.25	4006.94	19.9	19.9

CCV1				CCV2			
Compound	Height	CF	Height	CF	Height	CF	CF
Methanol	21005	4.61	18472	4.61	18472	4.61	4.61

LDC #: 25750 K43

VALIDATION FINDINGS WORKSHEET
Surrogate Results VerificationPage: 1 of 1
Reviewer: JVB
2nd reviewer: 

METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
Acetone	col. A	2500	2115.8	85	Recalculated 85	2

Sample ID:

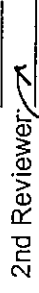
Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: JY6

2nd Reviewer: 

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$

SSC = Spiked sample concentration
SC = Sample concentration
SA = Spike added

MS = Matrix spike
MSD = Matrix spike duplicate

Where

$$\text{RPD} = ((\text{SSCMS} - \text{SSCMSD}) * 2) / (\text{SSCMS} + \text{SSCMSD}) * 100$$

MS/MSD samples: 12 / 13

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
Methane (8015B)	2500	2500	0	1879.64 1900	1926.34	75	75	58	58	26	26

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750 643

VALIDATION FINDINGS WORKSHEET

Page: 1 of 1

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: JVG

2nd Reviewer: A

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

 $\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$

Where SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

 $\text{RPD} = (((\text{SSCLCS} - \text{SSCLCSD}) * 2) / (\text{SSCLCS} + \text{SSCLCSD})) * 100$ LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: LCS 190019

Compound	Spike Added (ug/kg)		Spike Sample Concentration (ug/kg)		LCS		LCSD		Percent Recovery		LCS		Percent Recovery		LCS		Percent Recovery		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)																				
Diesel (8015)																				
Benzene (8021B)																				
Methane (RSK-175)																				
2,4-D (8151)																				
Dinoseb (8151)																				
Naphthalene (8310)																				
Anthracene (8310)																				
HMX (8330)																				
2,4,6-Trinitrotoluene (8330)																				
Methanol (8015b)	2.500	NA	2140.3	NA					86	86										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 28 750 k43

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: 1 of 1
Reviewer: JVB
2nd Reviewer: A

METHOD: GC HPLC

Y/N N/A
Y/N N/A

Were all reported results recalculated and verified for all level IV samples?
Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration = $\frac{(A)(F_v)(D_f)}{(RF)(V_s \text{ or } W_s)(\%S/100)}$

A = Area or height of the compound to be measured
F_v = Final Volume of extract
D_f = Dilution Factor
RF = Average response factor of the compound
in the initial calibration
V_s = Initial volume of the sample
W_s = Initial weight of the sample
%S = Percent Solid

Example:

Sample ID: 3 Compound Name: Methanol

Concentration = $\frac{(1422)(5 \text{ ml})}{(4.61)(10 \text{ g})(0.878)}$

= 175.7

2 / 80 ug/kg

#	Sample ID	Compound	Reported Concentrations	Recalculated Results Concentrations	Qualifications

Comments:

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: January 12, 2011

LDC Report Date: July 7, 2011

Matrix: Soil

Parameters: Glycols

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE059

Sample Identification

SL-104-SA5B-SB-4.0-5.0
SL-104-SA5B-SB-9.0-10.0
SL-098-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-9.0-10.0
SL-092-SA5B-SB-4.0-5.0
DUP17-SA5B-QC-011211
SL-072-SA5B-SB-4.0-5.0
SL-071-SA5B-SB-2.0-3.0
SL-097-SA5B-SB-4.0-5.0
SL-097-SA5B-SB-7.0-8.0
SL-092-SA5B-SB-4.0-5.0MS
SL-092-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 13 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Glycols.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
1/14/11 (E014.28R)	Propylene glycol Diethylene glycol	22.2 51.8	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A
1/14/11 (E014.39R)	Propylene glycol Ethylene glycol Diethylene glycol	35.0 23.6 74.6	SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-092-SA5B-SB-4.0-5.0MS SL-092-SA5B-SB-4.0-5.0MSD	J (all detects) UJ (all non-detects)	A
1/15/11 (E014.49R)	Propylene glycol Ethylene glycol Diethylene glycol	50.4 36.9 66.4	SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No glycol contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-092-SA5B-SB-4.0-5.0MS/MSD (SL-092-SA5B-SB-4.0-5.0)	Ethylene glycol Propylene glycol Diethylene glycol	- - 45 (59-109)	56 (63-107) 56 (63-107) -	- - 48 (≤20)	J (all detects) UJ (all non-detects)	A

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE059	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples SL-092-SA5B-SB-4.0-5.0 and DUP17-SA5B-QC-011211 were identified as field duplicates. No glycol was detected in any of the samples.

Santa Susana Field Laboratory
Glycols - Data Qualification Summary - SDG DE059

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0	Propylene glycol Diethylene glycol	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Calibration verification (%D) (C)
DE059	SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	Propylene glycol Ethylene glycol Diethylene glycol	J (all detects) UJ (all non-detects)	A	Calibration verification (%D) (C)
DE059	SL-092-SA5B-SB-4.0-5.0	Ethylene glycol Propylene glycol	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE059	SL-092-SA5B-SB-4.0-5.0	Diethylene glycol	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Glycols - Laboratory Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Glycols - Field Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

LDC #: 25750K45 **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE059

Level IV

Laboratory: Lancaster Laboratories

Date: 7/6/11

Page: 1 of 1

Reviewer: JY

2nd Reviewer: A

METHOD: GC Glycols (EPA SW 846 Method 8015B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/12/11
II.	Initial calibration	A	% RSD < 20
III.	Calibration verification/ICV	SW	CCV/ICV < 20
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	SW	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	ND SW	D = 6.7
XIII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

C01)

1	SL-104-SA5B-SB-4.0-5.0	11	SL-097-SA5B-SB-7.0-8.0	21	PBLK15014	31	
2	SL-104-SA5B-SB-9.0-10.0	12	SL-092-SA5B-SB-4.0-5.0MS	22		32	
3	SL-098-SA5B-SB-4.0-5.0	13	SL-092-SA5B-SB-4.0-5.0MSD	23		33	
4	SL-103-SA5B-SB-4.0-5.0	14		24		34	
5	SL-103-SA5B-SB-9.0-10.0	15		25		35	
6	SL-092-SA5B-SB-4.0-5.0 ^D	16		26		36	
7	DUP17-SA5B-QC-011211 ^D	17		27		37	
8	SL-072-SA5B-SB-4.0-5.0	18		28		38	
9	SL-071-SA5B-SB-2.0-3.0	19		29		39	
10	SL-097-SA5B-SB-4.0-5.0	20		30		40	

Notes:

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%?	/			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?		/		
Did the initial calibration meet the curve fit acceptance criteria?			/	
Were the RT windows properly established?	/			
III. Continuing calibration				
What type of continuing calibration calculation was performed? %D or %R	/			
Was a continuing calibration analyzed daily?	/			
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	/	/		
Were all the retention times within the acceptance windows?	/			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
V. Surrogate spikes				
Were all surrogate %R within the QC limits?	/			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			/	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			/	
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		/		
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
VIII. Regional Quality Assurance and Quality Control				

Validation Area	Yes	No	NA	Findings/Comments
Were performance evaluation (PE) samples performed?		/		
Were the performance evaluation (PE) samples within the acceptance limits?			/	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	/			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XII. System performance				
System performance was found to be acceptable.	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	/			
Target compounds were detected in the field duplicates.	/	/		
XV. Field blanks				
Field blanks were identified in this SDG.		/		
Target compounds were detected in the field blanks.			/	

LDC #: 25750 K45

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: [Signature]

METHOD: GC HPLC

The calibration factors (CF), average CF, and relative standard deviation (%RSD) were recalculated for compounds identified below using the following calculations:

CF = A/C

average CF = sum of the CF/number of standards

%RSD = $100 * (S/X)$

Where:

H = Height of compound

C = Concentration of compound

S = Standard deviation of calibration factors

X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported (200.194 std)	Recalculated (200.194 std)	Reported Average RRF (Initial)	Recalculated Average RRF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/14/2011	Diethylene glycol	1416.38	1416.38	1445.51	1445.51	7.8	7.8
	H3762A								

C	H
200.194	283549.8

Conc	Diethylene glycol
10.010	1279.64
50.040	1373.66
100.097	1466.94
200.194	1416.38
300.291	1567.36
500.485	1569.09
X=	1445.51
S=	113.226

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC # 25750VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results VerificationPage: 1 of 1
Reviewer: JVG
2nd Reviewer: AMETHOD: GC ✓ HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration percent difference (%D) values were recalculated for the compounds identified below using the following calculation:

Percent difference (%D) = $100 * (N - C) / N$

Where:

N = Initial Calibration Factor or Nominal Amount

C = Calibration Factor from Continuing Calibration Standard or Calculated Amount

#	Standard ID	Calibration Date	Compound	CCV Conc	Reported Conc	Recalculated Conc	Reported % D	Recalculated %D
1	e014.17r	1/14/2011	Diethylene glycol	100.10	114.97	114.97	14.9	14.9
2	e014.28r	1/14/2011	Diethylene glycol	100.10	48.21	48.21	51.8	51.8
3	e014.39r	1/14/2011	Diethylene glycol	100.10	25.47	25.47	74.55	74.6
3	e014.49r	1/15/2011	Diethylene glycol	100.10	33.62	33.62	66.41	66.4

	Compound	Area	CF
CCV1	Diethylene glycol	166194	1445.51
CCV2	Diethylene glycol	69688	1445.51
CCV3	Diethylene glycol	36819	1445.51
CCV4	Diethylene glycol	48598	1445.51

LDC #: 25750 k45

VALIDATION FINDINGS WORKSHEET
Surrogate Results VerificationPage: 1 of 1
Reviewer: JVB
2nd reviewer: A

METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$ Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Tetramethylene glycol	col. A	200	96.5776	48	48	2

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: JN6

2nd Reviewer: CA

METHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$

SSC = Spiked sample concentration

MS = Matrix spike

SC = Sample concentration

MSD = Matrix spike duplicate

$$\text{RPD} = ((\text{SSCMS} - \text{SSCMSD}) * 2) / (\text{SSCMS} + \text{SSCMSD}) * 100$$

MS/MSD samples: 12/13

Compound	Spike Added (mg/kg)		Sample Conc. (mg/kg)	Spike Sample Concentration (mg/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
E. Glycol (8015B)	205.3	205.3	0	130.95	114.27	64	64	56	56	13	13

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: X 750 k45

VALIDATION FINDINGS WORKSHEET

Page: 1 of 1

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: JVG2nd Reviewer: AMETHOD: GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

 $\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$

Where SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

 $\text{RPD} = (((\text{SSCLCS} - \text{SSCLCSD}) * 2) / (\text{SSCLCS} + \text{SSCLCSD})) * 100$

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: LCS 15018

Compound	Spike Added (mg/kg)		Spike Sample Concentration (mg/kg)		LCS		LCSD		Percent Recovery		Percent Recovery		Percent Recovery		RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)																
Diesel (8015)																
Benzene (8021B)																
Methane (RSK-175)																
2,4-D (8151)																
Dinoseb (8151)																
Naphthalene (8310)																
Anthracene (8310)																
HMX (8330)																
2,4,6-Trinitrotoluene (8330)																
E. Glycol (80157)	205.03	NA	180.535	NA	88	88										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

METHOD: GC HPLC

☒ N N/A Were all reported results recalculated and verified for all level IV samples?
☒ Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration = $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$ Example: Sample ID 7 Compound Name Diethylene glycol
Concentration = $\frac{(16077)(5 \text{ ml})}{(14455)(10\%)(0.891)} = 6.2 \text{ mg/kg}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

#	Sample ID	Compound	Reported Concentrations ()	Recalculated Results Concentrations ()	Qualifications

Comments: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: January 12, 2011

LDC Report Date: July 10, 2011

Matrix: Soil

Parameters: Formaldehyde

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE059

Sample Identification

SL-104-SA5B-SB-4.0-5.0
SL-104-SA5B-SB-9.0-10.0
SL-098-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-4.0-5.0
SL-103-SA5B-SB-9.0-10.0
SL-092-SA5B-SB-4.0-5.0
DUP17-SA5B-QC-011211
SL-072-SA5B-SB-4.0-5.0
SL-071-SA5B-SB-2.0-3.0
SL-097-SA5B-SB-4.0-5.0
SL-097-SA5B-SB-7.0-8.0
SL-092-SA5B-SB-4.0-5.0MS
SL-092-SA5B-SB-4.0-5.0MSD

Introduction

This data review covers 13 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8315A for Formaldehyde.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No formaldehyde was found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE059	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples SL-092-SA5B-SB-4.0-5.0 and DUP17-SA5B-QC-011211 were identified as field duplicates. No formaldehyde was detected in any of the samples.

Santa Susana Field Laboratory
Formaldehyde - Data Qualification Summary - SDG DE059

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE059	SL-104-SA5B-SB-4.0-5.0 SL-104-SA5B-SB-9.0-10.0 SL-098-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-4.0-5.0 SL-103-SA5B-SB-9.0-10.0 SL-092-SA5B-SB-4.0-5.0 DUP17-SA5B-QC-011211 SL-072-SA5B-SB-4.0-5.0 SL-071-SA5B-SB-2.0-3.0 SL-097-SA5B-SB-4.0-5.0 SL-097-SA5B-SB-7.0-8.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Formaldehyde - Laboratory Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Formaldehyde - Field Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

LDC #: 25750K71 **VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE059

Level IV

Laboratory: Lancaster Laboratories

Date: 7-6-11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: HPLC Formaldehyde (EPA SW 846 Method 8315A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/12/11
II.	Initial calibration	A	1/10 RD = 20
III.	Calibration verification/ver	A	CCV = 20%
IV.	Blanks	A	
V.	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	ND	FD = 6 + 7
XIII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

ALL SA 1

1	SL-104-SA5B-SB-4.0-5.0	11	SL-097-SA5B-SB-7.0-8.0	21		31	110170009-BLK
2	SL-104-SA5B-SB-9.0-10.0	12	SL-092-SA5B-SB-4.0-5.0MS	22		32	
3	SL-098-SA5B-SB-4.0-5.0	13	SL-092-SA5B-SB-4.0-5.0MSD	23		33	
4	SL-103-SA5B-SB-4.0-5.0	14		24		34	
5	SL-103-SA5B-SB-9.0-10.0	15		25		35	
6	SL-092-SA5B-SB-4.0-5.0	16		26		36	
7	DUP17-SA5B-QC-011211	17		27		37	
8	SL-072-SA5B-SB-4.0-5.0	18		28		38	
9	SL-071-SA5B-SB-2.0-3.0	19		29		39	
10	SL-097-SA5B-SB-4.0-5.0	20		30		40	

Notes: _____

Method: GC X HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	<u>/</u>			
Cooler temperature criteria was met.	<u>/</u>			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<u>/</u>			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) < 20%?	<u>/</u>			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	<u>/</u>			
Did the initial calibration meet the curve fit acceptance criteria?	<u>/</u>			
Were the RT windows properly established?	<u>/</u>			
IV. Continuing calibration				
What type of continuing calibration calculation was performed? <u>></u> %D or %R				
Was a continuing calibration analyzed daily?	<u>/</u>			
Were all percent differences (%D) < 20% or percent recoveries 80-120%?	<u>/</u>			
Were all the retention times within the acceptance windows?	<u>/</u>			
V. Blanks				
Was a method blank associated with every sample in this SDG?	<u>/</u>			
Was a method blank analyzed for each matrix and concentration?	<u>/</u>			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	<u>/</u>			
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	<u>/</u>			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	<u>/</u>			
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	<u>/</u>			
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<u>/</u>			
Was a MS/MSD analyzed every 20 samples of each matrix?	<u>/</u>			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<u>/</u>			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	<u>/</u>			
Was an LCS analyzed per extraction batch?	<u>/</u>			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<u>/</u>			
IX. Regional Quality Assurance and Quality Control				

VALIDATION FINDINGS CHECKLIST.

Validation Area	Yes	No	NA	Findings/Comments
Were performance evaluation (PE) samples performed?		☒		
Were the performance evaluation (PE) samples within the acceptance limits?		☒		
X. Target compound identification				
Were the retention times of reported detects within the RT windows?		☒		
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?		☒		
XII. System performance				
System performance was found to be acceptable.	☒			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	☒			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	☒			
Target compounds were detected in the field duplicates.		☒		
XV. Field blanks				
Field blanks were identified in this SDG.		☒		
Target compounds were detected in the field blanks.			☒	

LDC #: 25750k77
SDG #: See Cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC HPLC X

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = $100 \cdot (S/X)$
A = Area of compound
C = Concentration of compound
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported (200 CF std)	Recalculated (200 CF std)	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
1	HEAL	1/19/10	Formaldehyde	62.7	63.7	62.7	62.7	5.1	5.1
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750K27
SDG #: Sec Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: WJ
2nd Reviewer: CA

METHOD: GC HPLC X

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = $100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$ Where: ave. CF = Initial calibration average CF
CF = A/C CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF (cal)/ CCV Comp.	Reported		Recalculated	
					CF/Comp. CCV	%D	CF/Comp. CCV	%D
1	1F4019.2012	1/19/11	Formaldehyde	2002.00	2035.32	1.7	2035.32	1.7
	1F4019.312	1/19/11	Formaldehyde	2002.00	2033.70	1.6	2033.70	1.6
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25750K71**VALIDATION FINDINGS WORKSHEET**
Surrogate Results VerificationPage: 1 of 1Reviewer: BT2nd reviewer: CMETHOD: GC ☒ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS * 100$ Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Butyraldehyde	A	3956.11	3323.13	84	84	0

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Notes: _____

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

HPLC

The percent recoveries (%R) are calculated using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$
$$RPD = (((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD)) * 100$$

MS/MSD samples: 12/13

Where

SSC = Spiked sample concentration

SC = Sample concentration

SA = Spike added

MS = Matrix spike

MSD = Matrix spike duplicate

12/13

[illegible][illegible]

LDC #: 2575027

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]METHOD: GC ☒ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$$

Where SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration

$$\text{RPD} = (((\text{SSCLCS} - \text{SSCLCSD}) * 2) / (\text{SSCLCS} + \text{SSCLCSD})) * 100$$

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 110170009A-LCS

Compound	Spike Added (ug/kg)		Spike Sample Concentration (ug/kg)		LCS		Percent Recovery		LCSD		RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)												
Diesel (8015)												
Benzene (8021B)												
Methane (RSK-175)												
2,4-D (8151)												
Dinoseb (8151)												
Naphthalene (8310)												
Anthracene (8310)												
HMX (8330)												
2,4,6-Trinitrotoluene (8330)												
Formaldehyde	5010	n/a	5024.04	n/a	100	100						

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET

Sample Calculation Verification

Page: 1 of 1
Reviewer: BM
2nd Reviewer: A

~~Y N N/A~~
~~Y N N/A~~

$$\text{Concentration} = \frac{(A)(Fv)(Df)}{(Rf)(Vs \text{ or } Ws)(\%S/100)}$$

Sample ID. ALL Compound Name ALL

Concentration =

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor

RF= Average response factor of the compound

In the initial calibration

V_s = Initial volume of the sample

Ws= Initial weight of the sample

%S= Percent Solid

[illegible]

Comments:

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Santa Susana Field Laboratory

Collection Date: January 12, 2011

LDC Report Date: July 11, 2011

Matrix: Soil

Parameters: Perchlorate

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE059

Sample Identification

SL-097-SA5B-SB-7.0-8.0

Introduction

This data review covers one soil sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6850 for Perchlorate.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990 .

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 15.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 15.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The percent differences (%D) of the limit of detection verification (LODV) calibration standard were less than or equal to 30.0% for perchlorate.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No perchlorate was found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogate spikes were not required by the method.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE059	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Perchlorate - Data Qualification Summary - SDG DE059

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE059	SL-097-SA5B-SB-7.0-8.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Perchlorate - Laboratory Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Perchlorate - Field Blank Data Qualification Summary - SDG DE059

No Sample Data Qualified in this SDG

METHOD: LC/MS Perchlorate (EPA SW846 Method 6850)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 1/12/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	r ²
IV.	Continuing calibration/ICV	SW A	COV/ICV ≤ 15% / 50% LODV ≤ 30%
V.	Blanks	A	
VI.	Surrogate spikes	N	
VII.	Matrix spike/Matrix spike duplicates	N	Client spec
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

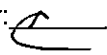
Validated Samples:

Soi)

1	SL-097-SA5B-SB-7.0-8.0	11	Blank B	21		31	
2		12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 25750 K87

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: JVL
2nd Reviewer: Method: ^{CLO4} ~~Semivolatiles (EPA SW 846 Method 8270C)~~ ⁶⁸⁵⁰

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	☒	☐	☐	
Cooler temperature criteria was met.	☒	☐	☐	
II. GC/MS instrument performance check (Auto tune)				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	☒	☐	☐	
Were all samples analyzed within the 12 hour clock criteria?	☒	☐	☐	
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	☒	☐	☒	
Was a curve fit used for evaluation?	☒	☐	☐	
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	☒	☐	☐	
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ?	☐	☐	☒	
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	☒	☐	☐	
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	☒	☐	☒	
Were all percent differences (%D) $\leq 5\%$ and relative response factors (RRF) ≥ 0.05 ?	☒	☒	☒	
V. Blanks				
Was a method blank associated with every sample in this SDG?	☒	☐	☐	
Was a method blank analyzed for each matrix and concentration?	☒	☐	☐	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	☐	☒	☐	
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	☐	☐	☒	
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?	☐	☐	☒	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?	☐	☐	☒	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	☐	☒	☐	
Was a MS/MSD analyzed every 20 samples of each matrix?	☐	☒	☐	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	☐	☐	☒	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	☒	☐	☐	

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		/		
Were the performance evaluation (PE) samples within the acceptance limits?			/	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	/			
Were retention times within + 30 seconds from the associated calibration standard?	/			
XI. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	/			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	/			
Were chromatogram peaks verified and accounted for?	/			
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	/			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			/	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?			/	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?		/		
XIV. System performance				
System performance was found to be acceptable.	/			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.		/		
Target compounds were detected in the field duplicates.			/	
XVII. Field blanks				
Field blanks were identified in this SDG.		/		
Target compounds were detected in the field blanks.			/	

LDC #: 25750187

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 1 of 2
Reviewer: MC
2nd Reviewer: MC

Method: LCMS Perchlorate (EPA SW 846 Method 6850)

Date	Instrument	Compound	Levels	(Y) Response	(X) Conc.	(X ²) Conc.
1/21/2011	MS1	Perchlorate	1	0.023148	0.02	0.0004
			2	0.042217	0.04	0.0016
			3	0.105572	0.1	0.0100
			4	0.216596	0.2	0.0400
			5	0.390724	0.4	0.1600
			6	1.050186	1.0	1.0000
			7	2.890821	2.5	6.2500

Regression Output		Reported
Constant	c	0.0064
Std Err of Y Est		
R Squared		0.9999353
Degrees of Freedom		
X Coefficient(s)	b =	9.64931E-01
	a =	7.5581E-02
Correlation Coefficient		0.999968
Coefficient of Determination (r ²)		0.999935

LDC #: 15750167

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page: 2 of 2
Reviewer: [Signature]
2nd Reviewer: [Signature]

Method: LCMS Perchlorate (EPA SW 846 Method 6850)

Date	Instrument	Compound	Levels	(Y) Response	(X) Conc.	(X ²) Conc.
1/24/2011	MS1	Perchlorate	1	0.01891	0.02	0.0004
			2	0.04378	0.04	0.0016
			3	0.11168	0.1	0.0100
			4	0.28376	0.2	0.0400
			5	0.43318	0.4	0.1600
			6	2.20022	2.5	6.2500

RF

0.9456

1.0945

1.1168

1.4188

1.0829

0.8801

1.0898

Ave=

Regression Output		Reported
Constant	c	0.0048
Std Err of Y Est		
R Squared		0.9991158
Degrees of Freedom		0.99911524
X Coefficient(s)	b =	1.1749
	a =	-0.1187
Correlation Coefficient		0.999558
Coefficient of Determination (r ²)		0.999116

VALIDATION FINDINGS WORKSHEET

METHOD:LCMS Perchlorate (EPA SW 846 Method 6850)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$
 RRF = $(A_x)(C_{is}) / (A_{is})(C_x)$
 ave. RRF = initial calibration average RRF
 RRF = continuing calibration RRF
 Ais = Area of associated internal standard
 Cis = Concentration of internal standard
 Ax = Area of compound,
 Cx = Concentration of compound,

#	Standard ID	Calibration Date	Compound (IS)	CCV Conc	Reported Conc	Recalculated Conc	Reported % D	Recalculated %D
1	ms5p02111021	1/21/2011	CLO4 35 (CLO418)	0.4000	0.5187	0.5181	29.5	29.5
2	ms5p02411010	1/24/2011	CLO4 35 (CLO418)	4.0000	4.1548	4.1554	3.8	3.9

$$Y = a(X^2) + bX + c$$

Area	Conc.				Final conc	T = Y-c	(b^2 - 4aT)	() ^ 1/2	(-b - ()) / 2a	(-b - ()) / 2a
	Y	a	b	c						
CGV1	0.05659	0.0755810	0.96493	0.00640	0.05181	-0.050191962	0.94626069	0.972762083	0.051805895	-12.818652068
CGV2	0.47252	-0.1187000	1.17490	0.00480	0.41554	-0.467716876	1.158318037	1.076251847	0.415535608	9.482526734

6850
C102
METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 * (\text{SC/SA})$$

Where: SSC = Spike concentration
SA = Spike added

$$RPD = |LCSC - LCSDC| * 2 / (LCSC + LCSDC)$$

LCSC = Laboratory control sample concentration

LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: LC58

[illegible]

Comments: Refer to Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Reviewer: TV6

2nd reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Y	N	N/A
Y	N	N/A

Were all reported results recalculated and verified for all level IV samples?

Y	N	N/A
---	---	-----

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_u)(L_u)(V_i)(DF)(2.0)}{(A_m)(RRF)(V_o)(V_l)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_1 = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. _____, _____ *MD*

$$\text{Conc.} = \frac{(\quad)(\quad)(\quad)(\quad)}{(\quad)(\quad)(\quad)(\quad)}$$

19

[illegible]

SAMPLE DELIVERY GROUP

DE060

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Jan-2011	TB-011311	6183560	TB	5030B	8260B	III
13-Jan-2011	TB-011311	6183560	TB	5030B	8260B SIM	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	3050B	6010B	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	3050B	6020	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	3060A	7199	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	3550B	8082	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	3550B	8270C	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	3550B	8270C SIM	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	5035	8260B	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	5035	8260B SIM	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	Gen Prep	9045M	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	METHOD	300.0	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	METHOD	314.0	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	METHOD	7471A	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	3050B	6010B	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	3050B	6020	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	3060A	7199	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	3550B	8082	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	3550B	8270C	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	3550B	8270C SIM	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	5035	8260B	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	5035	8260B SIM	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	Gen Prep	9045M	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	METHOD	300.0	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	METHOD	314.0	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	METHOD	7471A	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	3050B	6010B	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	3050B	6020	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	3060A	7199	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	3550B	8081A	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	3550B	8082	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	3550B	8151A	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	3550B	8270C	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	3550B	8270C SIM	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	Gen Prep	9045M	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	METHOD	300.0	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	METHOD	314.0	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	METHOD	7471A	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5MSD	P183555M241222A	MSD	3550B	8151A	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5MS	P183555R241154A	MS	3550B	8151A	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	3050B	6010B	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	3050B	6020	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	3060A	7199	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	3550B	8082	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	3550B	8270C	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	3550B	8270C SIM	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	Gen Prep	9045M	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	METHOD	300.0	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	METHOD	314.0	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	METHOD	7471A	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	3050B	6010B	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	3050B	6020	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	3060A	7199	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	3550B	8082	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	3550B	8270C	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	3550B	8270C SIM	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	5035	8260B	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	5035	8260B SIM	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	Gen Prep	9045M	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	METHOD	300.0	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	METHOD	314.0	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	METHOD	7471A	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0DUP	P183551D271743A	DUP	3060A	7199	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0MS	P183551R271659A	MS	3060A	7199	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	3050B	6010B	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	3050B	6020	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	3060A	7199	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	3550B	8082	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	3550B	8270C	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	3550B	8270C SIM	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	Gen Prep	9045M	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	METHOD	300.0	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	METHOD	314.0	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	METHOD	7471A	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	3050B	6010B	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	3050B	6020	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	3060A	7199	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	3550B	8270C	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	3550B	8270C SIM	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	5035	8260B	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	5035	8260B SIM	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	Gen Prep	9045M	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	METHOD	300.0	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	METHOD	314.0	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	METHOD	7471A	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	3050B	6010B	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	3050B	6020	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	3060A	7199	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	3550B	8081A	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	3550B	8082	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	3550B	8151A	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	3550B	8270C	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	3550B	8270C SIM	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	Gen Prep	9045M	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	METHOD	300.0	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	METHOD	314.0	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	METHOD	7471A	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5DUP	P183556D271317B	DUP	METHOD	300.0	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5MS	P183556R271329B	MS	METHOD	300.0	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	3050B	6010B	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	3050B	6020	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	3060A	7199	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	3550B	8082	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	3550B	8270C	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	3550B	8270C SIM	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	Gen Prep	9045M	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	METHOD	300.0	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	METHOD	314.0	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	METHOD	7471A	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0DUP	P183550D272146B	DUP	METHOD	314.0	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0DUP	P183550D291245B	DUP	Gen Prep	9045M	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0MS	P183550R272210B	MS	METHOD	314.0	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	3050B	6010B	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	3050B	6020	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	3060A	7199	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	3550B	8082	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	3550B	8270C	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	3550B	8270C SIM	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	5035	8260B	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	5035	8260B SIM	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	Gen Prep	9045M	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	METHOD	300.0	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	METHOD	314.0	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	METHOD	7471A	III
13-Jan-2011	EB21-SA5B-011311	6183559	EB	3005A	6010B	III
13-Jan-2011	EB21-SA5B-011311	6183559	EB	3020A	6020	III
13-Jan-2011	EB21-SA5B-011311	6183559	EB	3510C	8082	III
13-Jan-2011	EB21-SA5B-011311	6183559	EB	3510C	8270C	III
13-Jan-2011	EB21-SA5B-011311	6183559	EB	3510C	8270C SIM	III

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Jan-2011	EB21-SA5B-011311	6183559	EB	Gen Prep	300.0	III
13-Jan-2011	EB21-SA5B-011311	6183559	EB	Gen Prep	314.0	III
13-Jan-2011	EB21-SA5B-011311	6183559	EB	Gen Prep	7199	III
13-Jan-2011	EB21-SA5B-011311	6183559	EB	METHOD	7470A	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	3050B	6010B	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	3050B	6020	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	3060A	7199	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	3550B	8082	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	3550B	8270C	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	3550B	8270C SIM	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	5035	8260B	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	5035	8260B SIM	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	Gen Prep	9045M	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	METHOD	300.0	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	METHOD	314.0	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	METHOD	7471A	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0DUP	P183546D270835A	DUP	METHOD	300.0	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0MSD	P183546M241719A	MSD	3550B	8082	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0MSD	P183546M261017	MSD	3550B	8270C	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0MSD	P183546M261110	MSD	3550B	8270C SIM	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0MS	P183546R212313A	MS	5035	8260B	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0MS	P183546R241700A	MS	3550B	8082	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0MS	P183546R260952	MS	3550B	8270C	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0MS	P183546R261038	MS	3550B	8270C SIM	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0MS	P183546R270847A	MS	METHOD	300.0	III
13-Jan-2011	EB20-SA5B-011311	6183558	EB	3005A	6010B	III