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SOIL SAMPLING REPORT FOR SOLID WASTE MANAGEMENT UNITS 2, 3, 4, 5 AND 22 (SWMU2) (SWMU3) (SWMU4) (SWMU5) (SWMU22) NS MAYPORT FL
5/11/2010
TETRA TECH

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Project Number 112G00203

Naval Facilities Engineering Command, Southeast
ATTN: Mr. Brian Syme (OPC 6)
Remedial Project Manager
135 Ajax Street North, Building 903
Naval Air Station Jacksonville
Jacksonville, FL 32212-0030

Reference: CLEAN IV Contract Number N62467-04-D-0055
Contract Task Order Number 0010

Subject: Soil Sampling Report for Solid Waste Management Units 2, 3, 4, 5, and 22
Naval Station Mayport, Jacksonville, Florida

Dear Mr. Syme:

Tetra Tech NUS, Inc. (TtNUS) is pleased to submit the Soil Sampling Report for Solid Waste Management Units (SWMUs) 2, 3, 4, 5, and 22 at Naval Station (NAVSTA) Mayport, Florida. This report was prepared for the United States Navy, Naval Facilities Engineering Command Southeast (NAVFAC SE) under Contract Task Order (CTO) 0010 for the Comprehensive Long-term Environmental Action Navy (CLEAN) IV Contract Number N62467-04-D-0055.

The soil sampling effort was performed in general accordance with the Soil Sampling Work Plan (dated August 10, 2007) and was altered because of subsequent communications during NAVSTA Mayport Environmental Partnering Team (Partnering Team) meetings. The Soil Sampling Work Plan described the impact that regulatory revisions have had on the extent of soil contamination delineation at these SWMUs since the draft Corrective Measures Study (CMS) Report was submitted.

The objectives of the sampling program were detailed in the work plan and initially were intended to delineate surface and subsurface soil contamination within and around the SWMUs in excess of the revised Florida Department of Environmental Protection (FDEP) Soil Cleanup Target Levels (SCTLs). Additionally, the sampling results were to support land use control (LUC) boundary definition at the respective SWMUs; however, during the process, Partnering Team discussions and consensus changed the requirements for soil at these SWMUs, and the sampling program was discontinued. Per Partnering Team consensus, the purpose of this report is to report the data obtained during the sampling events.

Subsequent sections of this report include Site Background, Historical Sampling Results, Sampling Program, Sampling Activities, Sample Results, and Summary.

SITE BACKGROUND

SWMUs 2, 3, 4, and 5 are former landfill sites located in the southwestern portion of NAVSTA Mayport that operated from 1960 to 1985 as shown on Figure 1. SWMU 22 is a facility that was used for abrasive blasting and is located approximately 400 feet northeast of SWMU 2 (see Figure 1). Collectively, these SWMUs are referred to as the Landfill Area SWMUs. Wastes in each landfill were placed below the

groundwater level. Waste materials above the water level were burned on a daily basis. This practice has been discontinued; however, TtNUS was not able to determine the date it was suspended. Similar wastes were disposed of at each landfill and were reported to include waste oil, transmission fluid, hydraulic fluid, transformer oil, mercury waste from shipboard and onshore activities, paint waste, asbestos, solvents, plating solutions, pesticide cans, batteries, bilge water, magnaflux dye, penetrants, photo-processing waste, sanitary garbage, and construction rubble.

SWMU 22 consists of a prefabricated sheet metal building on a concrete pad located within a fenced area. An abrasive media was used from 1985 until 1992 for cleaning ground support equipment and vehicles. During a visual site inspection conducted in 1989, the blasting residue was observed to have been placed in approximately 100 55-gallon drums.

HISTORICAL SAMPLING RESULTS

The following section provides an overview of the surface and subsurface soil conditions at SWMUs 2, 3, 4, 5, and 22 and information regarding the revised chemicals of concern (COCs) for these SWMUs as presented in the work plan.

Historical Surface and Subsurface Soil Sampling

In the draft CMS Report for SWMUs 2, 3, 4, 5 and 22, soil was evaluated for corrective action independently at each SWMU due to the physical separation of the SWMUs. As a result of the alternative evaluations conducted in the CMS, it was recommended that LUCs and periodic site inspections be implemented at each SWMU. These recommendations were made to address varying degrees of contaminated surface and subsurface soils located throughout the SWMUs.

In January 2007, the Partnering Team agreed that the investigational data at these SWMUs may not be sufficient to delineate the boundaries of soil contamination under an industrial land use scenario.

The most recent surface and subsurface soil samples (prior to the sampling events in 2007 and 2008) were collected in 1994 and were evaluated based upon the appropriate regulatory criteria at that time. The FDEP SCTLs were revised and effective as of April 17, 2005. In the TtNUS Soil Sampling Work Plan (dated August 10, 2007), the concentrations of COCs detected in the surface and subsurface soil at SWMUs 2, 3, 4, 5, and 22 were compared with the revised SCTLs, and a determination was made regarding whether additional soil data was needed to sufficiently define the LUC boundaries at the SWMUs.

Subsequent to the Soil Sampling Work Plan, the Partnering Team held multiple discussions, and TtNUS completed an arsenic background study that was documented in the Arsenic Background Study Report dated September 24, 2008. The result of the study was the approval of a background concentration of 13.7 milligrams per kilogram (mg/kg) for arsenic at NAVSTA Mayport (documented in a FDEP letter dated September 25, 2008). The approved background concentration had a drastic affect on the sampling program and eliminated arsenic as a COC at all sites except SWMU 3, which had one historic soil sample that contained an arsenic concentration of 15.6 mg/kg.

Arsenic concentrations in all other soil samples reviewed were less than the background concentration. The initial sampling efforts documented in this report were performed prior to the approval of the revised background concentration for arsenic. Additionally, soil sampling in 1994 and before continued beyond water table depths. During Partnering Team meeting discussions, it was established that there was no need to continue this practice, and sampling would only be performed above the water table.

Revised Surface and Subsurface Soil COCs

In the 2004 draft CMS Report, surface and subsurface soil chemicals of potential concern (COPCs) were evaluated independently for SWMUs 2, 3, 4, 5, and 22 based upon the industrial direct exposure SCTLs in effect at that time. COPCs for each SWMU were independently re-evaluated to select the surface and

subsurface soil COCs to be carried forward in the corrective action. Both industrial and residential direct exposure SCTLs were considered during the re-evaluation to aid in delineating the boundaries of soil contamination at these SWMUs. The results identified in the work plan were as follows:

- Surface Soil COCs
  - SWMU 2 – No COCs
  - SWMU 3 – Antimony
  - SWMU 4 – Aroclor-1260, chlordane, chromium VI, cyanide, mercury, and silver
  - SWMU 5 – Benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; indeno(1,2,3-cd)pyrene; Aroclor-1260; antimony; arsenic; chromium VI; cyanide; and mercury
  - SWMU 22 – No COCs

- Subsurface Soil COCs
  - SWMU 2 – 4-Methylphenol, antimony, arsenic, and lead
  - SWMU 3 – Benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; indeno(1,2,3-cd)pyrene; and arsenic
  - SWMU 4 – 1,4-Dichlorobenzene; methylene chloride; 4-methyphenol; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; bis(3-ethylhexyl)phthalate; chrysene; fluoranthene; indeno(1,2,3-cd)pyrene; naphthalene; Aroclor-1260; dieldrin; endosulfan I; antimony; arsenic; barium; chromium VI; mercury; selenium; and silver
  - SWMU 5 – 4-Methylphenol; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; dibenzo(a,h)anthracene; indeno(1,2,3-cd)pyrene; Aroclor-1254; arsenic; barium; cadmium; chromium VI; cyanide; mercury; nickel; silver; and vanadium
  - SWMU 22 – Arsenic

In the work plan for this sampling effort, TtNUS compared the previous results presented in the draft CMS to the updated SCTLs. Additionally, specific polycyclic aromatic hydrocarbon (PAH) results were converted to a benzo(a)pyrene equivalent value and compared to the direct exposure SCTL for benzo(a)pyrene. During the re-evaluation of COPCs, leaching to surface water was not considered for SWMUs 2, 3, and 22 since these SWMUs are generally greater than 300 feet away from the nearest surface water body. However, leaching to surface water was considered for SWMUs 4 and 5 as there are surface water bodies located near the outer boundaries of these two SWMUs.

Based on the re-evaluation of COPCs, it was determined that there are no surface soil COCs present at SWMUs 2 and 22. Surface soil COPCs as reported in the work plan for SWMUs 3, 4, and 5 are as follows:

- SWMU 3 – Antimony (leaching)
- SWMU 4 – Aroclor-1260, chlordane, chromium, cyanide, mercury, and silver (leaching)
- SWMU 5
  - Aroclor-1260, antimony, chromium, cyanide, and mercury (leaching)
  - Benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; indeno(1,2,3-cd)pyrene; and arsenic (residential exposure)

Based on the re-evaluation of subsurface soil COPCs, the following COCs were identified in the work plan:

- SWMU 2
  - 4-Methyphenol and antimony (leaching)
  - Arsenic and lead (residential exposure)

- SWMU 3
  - Arsenic; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; and indeno(1, 2, 3-cd)pyrene (residential exposure)

- SWMU 4
  - 1,4-Dichlorobenzene; methylene chloride; 4-methylphenol; fluoranthene; naphthalene; Aroclor-1260; dieldrin; endosulfan I; antimony; chromium; mercury; selenium; and silver (leaching)
  - Benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; indeno(1,2,3-cd)pyrene; bis(2-ethylhexyl)phthalate; arsenic; and barium (residential exposure)

- SWMU 5
  - 4-Methylphenol, Aroclor-1254, cadmium, chromium, cyanide, mercury, nickel, and silver (leaching)
  - Benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; dibenzo(a,h)anthracene; indeno(1,2,3-cd)pyrene; Aroclor-1254, arsenic, barium; and vanadium (residential exposure)

- SWMU 22
  - Arsenic (residential exposure)

Tables and figures from the 2007 Soil Sampling Work Plan depicting the sampling locations and analytical results are included in Attachment 1.

Groundwater investigation results at SWMUs 2, 3, 4, 5, and 22 are addressed in the draft CMS Report. Regulatory oversight responsibility of the sediments located in the ditches at SWMUs 2, 3, 4, 5, and 22 (as identified in the draft CMS) has been transferred from the Resource Conservation and Recovery Act Program to the FDEP Storm Water Program per an agreement reached at the Partnering Team meeting in January 2007. Neither of these was considered for further investigation in this effort.

SAMPLING PROGRAM

As detailed in the 2007 TtNUS Soil Sampling Work Plan, the objectives of the sampling program were to delineate surface and subsurface soil contamination in excess of the FDEP residential direct exposure SCTLs within and around the SWMUs. The data was to be used in support of defining the appropriate LUC boundaries at the respective SWMUs. The Soil Sampling Work Plan detailed the objectives for the sampling program. Since the Soil Sampling Work Plan was issued, the sampling program has been discussed by the Partnering Team on multiple occasions. Information from the Partnering Team meeting minutes is included below.

- July 2007: Action Item 01.07.1.6.2 required Diane Racine (NAVSTA Mayport) and Shina Ballard (TtNUS) to prepare a Technical Memorandum and Jim Cason (FDEP) to defer the sediments for SWMUs 2, 3, 4, 5 and 22 to the Storm Water Program. It was reported that this action item was ongoing as the memorandum was submitted, but had not been approved.

- May 2008: Field events previously scheduled for the week of April 28 were delayed because the SWMUs would be impacted by the results of the Arsenic Background Study. Additionally, the Work Plan for SWMUs 2, 3, 4, 5 and 22 defined the sample intervals for the confirmatory sampling, which were below the water table. After discovering the proposed soil sample locations were below the water table, a document review and search of historical topographical and aerial maps was performed to determine if there have been any significant changes in the makeup of the area around the proposed soil sample locations. The review resulted in an understanding that the area of the proposed soil sample locations had not changed significantly. Therefore, it was concluded that the sampling approach included in the Soil Sampling Work Plan should be modified to eliminate soil samples below the water table for metals analysis. It was recommended that the results of the Arsenic Background Study be given consideration when determining what additional soil samples need to be collected. Areas requiring confirmatory subsurface soil samples were to have samples

collected just above the water table (with special consideration given to the location of the smear zone).

The Partnering Team reached consensus to alter the sampling protocol for SWMUs 2, 3, 4, 5 and 22. Samples were to be collected only above the water table with consideration given to the smear zone. A work plan modification was not required.

- August 2008: The minutes included the following: "results of the arsenic background study will greatly impact the additional soil sampling required at these SWMUs. Sampling above the water table will be conducted in areas that still require delineation. SWMU 3 has one arsenic exceedance of the FDEP-approved NAVSTA Mayport background concentration for arsenic. SWMU 22 will have no LUCs for soil."

- November 2008: Discussion concluded that since SWMUs 2, 3, 4, and 5 were originally classified as landfills, at a minimum, LUCs will be required and the sites included in annual inspections. LUCs were to prevent residential or residential-like uses and implement digging prohibitions. No additional sampling was necessary. This soil sampling report was to be prepared to report the results of the sampling already performed and include a recommendation for LUCs. The report would be followed by the Statements of Basis. SWMU 22 would be "No Further Action."

The Partnering Team decisions changed the approach by eliminating the sampling of soil beneath the groundwater, by accepting the background concentration for arsenic, and by eliminating the need to establish LUC boundaries through sampling. These changes were incorporated into the program at various times, which is why there are some samples reported in this document from below the water table.

SAMPLING ACTIVITIES

TtNUS performed the following sampling activities during early 2008. Additional sampling was planned but not executed due to the Partnering Team discussions documented above.

- December 18, 2007: TtNUS sampled subsurface soil at SWMU 22. Samples were collected from five soil borings (MPT-22-SB01 through MPT-22-SB05). A rinsate blank (MPT22-RB01-121807) was also collected. The samples were sent to a laboratory for arsenic analysis.

- February 28 and 29, 2008: TtNUS collected surface and subsurface soil samples via hand auger at SWMUs 4 and 5. Two surface soil samples were collected at SWMU 5 from locations MPT-05-SS02 and MPT-05-SS04. Twenty-three subsurface soil samples were collected from four soil borings (MPT-05-SB01 through MPT-05-SB04) at SWMU 5 and four borings (MPT-04-SB02 through MPT-04-SB05) at SWMU 4. A soil boring was attempted at location MPT04-SB01, but could not be installed due to boring refusal issues. The samples were sent to the laboratory for metals analysis using United States Environmental Protection Agency (USEPA) Method 6010B and semivolatile organic compound (SVOC)/PAH analysis using USEPA Method 8270C. During this sampling, groundwater was encountered at varying depths of 3 to 8 feet below land surface.

- March 3, 2008: TtNUS collected surface soil samples from SWMU 5 at eight locations (MPT-05-SS05 through MPT-05-SS12). The soil samples were sent to the laboratory for metals analysis using USEPA Method 6010B and SVOC/PAH analysis using USEPA Method 8270C.

Surface soil samples were collected at SWMU 5 using disposable trowels. Subsurface soil samples were collected at SWMUs 2, 4, 5 and 22 using a 3-inch, inside diameter hand auger assembly. The surface and subsurface soil sampling locations are shown on Figure 2. Soil boring logs for the locations of the subsurface soil samples are provided in Attachment 2.

The samples were properly packaged and submitted along with chain-of-custody documentation to Gulf Coast Analytical Laboratories, Inc. in Baton Rouge, Louisiana. Each sample was analyzed for the parameters discussed above.

SAMPLE RESULTS

The soil sample results are detailed in this section. Surface soils at SWMU 5 will be presented first. Subsequently, the subsurface soil results for SWMUs 4, 5 and 22 will be presented.

Surface Soil

Ten surface soil samples were collected from sampling locations MPT-05-SB02 through MPT-05-SB12 at SWMU 5. The samples were analyzed for select PAH compounds using USEPA Method 8270C and metals using USEPA Method 6010B. In these 10 surface soil samples, only benzo(a)pyrene equivalents exceeded the residential SCTL in the soil samples from locations MPT-05-SB02 and MPT-05-SB10. The other analyte concentrations reported by the laboratory were less than the respective SCTL or NAVSTA Mayport background concentration. Table 1 provides the laboratory results for the most recent surface soil sampling. Figure 3 includes the sample locations where COCs exist at concentrations exceeding regulatory criteria from past and present sampling events. The laboratory data packages for the most recent sampling events are included in Attachment 3. Due to its large size, Attachment 3 is being provided on a compact disk.

COCs identified at concentrations exceeding regulatory criteria from the previous sampling events include antimony, benzo(a)pyrene equivalents, and benzo(a)pyrene. Tables and figures from the Soil Sampling Work Plan provide a summary of the historical sampling efforts and are included in Attachment 1. Please note that these tables and figures document exceedances based on regulatory criteria and background values in effect at the time of the Soil Sampling Work Plan preparation. The number of arsenic exceedances provided in these tables and figures were exaggerated due to comparison to the previous background concentration. Figure 3 compares all historical samples to the current criteria.

Subsurface Soil

Twenty-eight subsurface soil samples (see Table 2 for sample identifiers) were collected from SWMUs 4, 5 and 22. The samples were analyzed for select PAH compounds using USEPA Method 8270C and metals using USEPA Method 6010B. In the 28 subsurface soil samples collected during this phase of the investigation, only arsenic exceeded regulatory criteria and background concentrations. Specifically, arsenic was detected in sample MPT05-SB04-04-022808 at a concentration of 16.3 mg/kg. The other analyte concentrations reported by the laboratory were less then the respective SCTL or NAVSTA Mayport background concentration. Table 2 summarizes the results of the most recent subsurface soil sampling and Figure 4 graphically depicts the results from this round of sampling as well as historical results, which are in excess of current regulatory criteria and background concentrations. The laboratory data packages for the most recent sampling events are included in Attachment 3 (on compact disk).

COCs identified at concentrations exceeding regulatory criteria from the previous sampling events include antimony, arochlor-1254, barium, benzo(a)pyrene, benzo(a)pyrene equivalents, bis(2-ethylhexyl)phthalate, cadmium, copper, lead, methylene chloride, naphthalene, and vanadium. Tables and figures from the Soil Sampling Work Plan provide a summary of the historical sampling efforts and are included in Attachment 1. Please note that these tables and figures document exceedances based on regulatory criteria and background values in effect at the time of the Soil Sampling Work Plan preparation. The number of arsenic exceedances provided in these tables and figures were exaggerated due to comparison to the previous background concentration. Figure 4 compares all historical samples to the current criteria.

SUMMARY

TtNUS was contracted to perform surface and subsurface soil sampling at SWMUs 2, 3, 4, 5 and 22 to establish LUC boundaries. During the planning process and at various times after the Soil Sampling Work

Plan was approved, the Partnering Team reached consensus on items that affected the sampling program and what samples needed to be collected. The most significant change to this report was that the LUC boundaries could be established based on the landfill boundaries and no further delineation was required. Additionally, the Partnering Team reached consensus that the Soil Sampling Work Plan did not require modification or re-issuance. During this period, the Arsenic Background Study was approved and established a revised background concentration for arsenic of 13.7 mg/kg.

In 2007 and 2008, multiple sampling events were performed and included the collection of 10 surface soil and 28 subsurface soil samples. As stated above, the decision was made to discontinue this sampling effort and prepare a written report documenting the results. In the 10 surface soil samples collected, only benzo(a)pyrene was detected in excess of regulatory criteria. Of the 28 subsurface soil samples collected, only one sample contained levels of any COC (arsenic) in excess of regulatory criteria and background concentrations.

If you have any questions with regard to this submittal, please feel free to contact me at (904) 730-4669, extension 215, or via e-mail at gregory.roof@tetratech.com.

Sincerely,

Gregory S. Roof, P.E.
Task Order Manager

Enclosures (9)

c: John Winters, FDEP (2 copies)
Diane Fears, NAVSTA Mayport
Debra Humbert, TtNUS (unbound copy)
CTO 0010 Project File

CERTIFICATION

The information contained in this report is based on the recent sampling and associated information detailed in the text and appended to this letter report. If conditions are determined to exist that differ from those described, the undersigned engineer should be notified to evaluate the effects of any additional information on the information described in this report. This Soil Sampling Report was developed for SWMUs 2, 3, 4, 5, and 22 at the Naval Station Mayport, Jacksonville, Florida, and should not be construed to apply to any other site.

May 11, 2010
Gregory S. Roof, P.E.
Florida Professional Engineer License Number 50842
Tetra Tech NUS, Inc. Engineering No. 7988

TABLES

TABLE 1
SUMMARY OF LABORATORY SURFACE SOIL ANALYTICAL DETECTIONS

SOIL SAMPLING REPORT
SWMUs 2, 3, 4, 5, AND 22
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

Sample Location	FLORIDA RESIDENTIAL CRITERIA	FLORIDA INDUSTRIAL CRITERIA	FLORIDA LEACHABILITY TO GW CRITERIA	MAYPORT SS BACKGROUND CONCENTRATIONS	MPT-05-SB02	MPT-05-SB04	MPT-05-SB05	MPT-05-SB06
Sample Identifier					MPT05-SS02-01-022808	MPT05-SS04-01-022808	MPT05-SS05-01-030308	MPT05-SS06-01-030308
Sample Depth (feet bls)					1	1	1	1
Sample Date					2/28/2008	2/28/2008	3/3/2008	3/3/2008
PAHs (mg/kg)								
BENZO(A)ANTHRACENE	NC	NC	0.8	NA	0.146 J	0.022 J	0.0051 U	0.0050 U
BENZO(A)PYRENE	0.1	0.7	8	NA	0.085 J	0.0092 J	0.0086 U	0.0086 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	NA	0.158 J	0.0664 J	0.0118 U	0.0514 J
BENZO(K)FLUORANTHENE	NC	NC	24	NA	0.0756 J	0.0165 J	0.0106 U	0.0106 U
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	NA				
CHRYSENE	NC	NC	77	NA	0.155 J	0.0365 J	0.0076 U	0.0075 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	NA	0.119 J	0.0060 U		
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	NA	0.264 J	0.161 J	0.0126 U	0.0125 U
BENZO(A)PYRENE EQUIVALENT	0.1	0.7		NA	**0.262**	0.034	0.000	0.005
Inorganics (mg/kg)								
ARSENIC	2.1	12	NC	13.7	4.83	0.26	1.11	1.85
BARIUM	120	130000	1600	5.5	7.47	7.58		
VANADIUM	67	10000	980	3.4	14.1 J	4.85 J		

TABLE 1
SUMMARY OF LABORATORY SURFACE SOIL ANALYTICAL DETECTIONS

SOIL SAMPLING REPORT
SWMUs 2, 3, 4, 5, AND 22
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

Sample Location	FLORIDA RESIDENTIAL CRITERIA	FLORIDA INDUSTRIAL CRITERIA	FLORIDA LEACHABILITY TO GW CRITERIA	MAYPORT SS BACKGROUND CONCENTRATIONS	MPT-05-SB07	MPT-05-SB08	MPT-05-SB09	MPT-05-SB10
Sample Identifier					MPT05-SS07-01-030308	MPT05-SS08-01-030308	MPT05-SS09-01-030308	MPT05-SS10-01-030308
Sample Depth (feet bls)					1	1	1	1
Sample Date					3/3/2008	3/3/2008	3/3/2008	3/3/2008
PAHs (mg/kg)								
BENZO(A)ANTHRACENE	NC	NC	0.8	NA	0.0047 U	0.0053 U	0.0044 U	0.0742 J
BENZO(A)PYRENE	0.1	0.7	8	NA	0.0079 U	0.0091 U	0.0074 U	0.0805 J
BENZO(B)FLUORANTHENE	NC	NC	2.4	NA	0.0475 J	0.0124 U	0.0102 U	0.118 J
BENZO(K)FLUORANTHENE	NC	NC	24	NA	0.0098 U	0.0112 U	0.0092 U	0.041 J
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	NA				
CHRYSENE	NC	NC	77	NA	0.0069 U	0.0080 U	0.0065 U	0.0659 J
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	NA				
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	NA	0.0116 U	0.0133 U	0.0109 U	0.266 J
BENZO(A)PYRENE EQUIVALENT	0.1	0.7		NA	0.005	0.000	0.000	**0.127**
Inorganics (mg/kg)								
ARSENIC	2.1	12	NC	13.7	0.6	0.13 U	0.22 U	0.89
BARIUM	120	130000	1600	5.5				
VANADIUM	67	10000	980	3.4				

TABLE 1
SUMMARY OF LABORATORY SURFACE SOIL ANALYTICAL DETECTIONS

SOIL SAMPLING REPORT
SWMUs 2, 3, 4, 5, AND 22
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

Sample Location	FLORIDA RESIDENTIAL CRITERIA	FLORIDA INDUSTRIAL CRITERIA	FLORIDA LEACHABILITY TO GW CRITERIA	MAYPORT SS BACKGROUND CONCENTRATIONS	MPT-05-SB11	MPT-05-SB12
Sample Identifier					MPT-05-SS11-01-030308	MPT05-SS12-01-030308
Sample Depth (feet bls)					1	1
Sample Date					3/3/2008	3/3/2008
PAHs (mg/kg)						
BENZO(A)ANTHRACENE	NC	NC	0.8	NA	0.0051 U	0.0052 U
BENZO(A)PYRENE	0.1	0.7	8	NA	0.0088 U	0.0088 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	NA	0.0513 J	0.051 J
BENZO(K)FLUORANTHENE	NC	NC	24	NA	0.0108 U	0.0108 U
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	NA		
CHRYSENE	NC	NC	77	NA	0.0077 U	0.0077 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	NA		
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	NA	0.0128 U	0.0128 U
BENZO(A)PYRENE EQUIVALENT	0.1	0.7		NA	0.005	0.005
Inorganics (mg/kg)						
ARSENIC	2.1	12	NC	13.7	0.4	0.13 U
BARIUM	120	130000	1600	5.5		
VANADIUM	67	10000	980	3.4		

Notes:

Results are in milligrams per kilogram (mg/kg).

Bold values indicate an exceedance of regulatory criteria and background concentration.

bls = Below land surface.

NC = No criteria. FDEP requires these analytes to be evaluated using a benzo(a)pyrene equivalent calculation. The result of the calculation is compared to the benzo(a)pyrene criteria.

NA = No applicable background concentration.

ND = Not detected.

U = The analyte was not detected in excess of the detection limit, whose value is shown.

J = The analyte was detected at the shown estimated concentration.

TABLE 2
SUMMARY OF LABORATORY SUBSURFACE SOIL ANALYTICAL DETECTIONS

SOIL SAMPLING REPORT
SWMUs 2, 3, 4, 5, AND 22
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

Sample Location	FLORIDA RESIDENTIAL CRITERIA	FLORIDA INDUSTRIAL CRITERIA	FLORIDA LEACHABILITY TO GW CRITERIA	MAYPORT SS BACKGROUND CONCENTRATIONS	MPT04-SB02	MPT04-SB02	MPT04-SB02	MPT04-SB02
Sample Identifier					MPT04-SB02-05-022908	MPT04-SB02-07-022908	MPT04-SB02-09-022908	MPT04-SB02-11-022908
Sample Depth (feet bls)					5	7	9	11
Sample Date					2/28/2008	2/28/2008	2/28/2008	2/28/2008
PAHs (mg/kg)								
BENZO(A)ANTHRACENE	NC	NC	0.8	NA	0.0044 U	0.0049 U	0.0779 J	0.014 J
BENZO(A)PYRENE	0.1	0.7	8	NA	0.0076 U	0.0084 U	0.0382 J	0.0091 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	NA	0.0457 J	0.0114 U	0.0984 J	0.0602 J
BENZO(K)FLUORANTHENE	NC	NC	24	NA	0.0093 U	0.0103 U	0.0385 J	0.0112 U
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	NA	0.0407 U	0.0449 U	0.0502 U	0.0487 U
CHRYSENE	NC	NC	77	NA	0.0066 U	0.0073 U	0.0866 J	0.0145 J
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	NA				
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	NA	0.011 U	0.0122 U	0.22 J	0.0132 U
BENZO(A)PYRENE EQUIVALENT	0.1	0.7			0.00457	ND	0.0783016	0.0074345
Pesticides/PCBs (mg/kg)								
AROCLOR-1254	NC	NC	NC	NA				
Inorganics (mg/kg)								
ARSENIC	2.1	12	NC	13.7	0.61	0.15	0.54	0.73
BARIUM	120	130000	1600	7.2	3.06	3.07	5.3	4.31
VANADIUM	67	10000	980	3.1				

TABLE 2
SUMMARY OF LABORATORY SUBSURFACE SOIL ANALYTICAL DETECTIONS

SOIL SAMPLING REPORT
SWMUs 2, 3, 4, 5, AND 22
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

Sample Location	FLORIDA RESIDENTIAL CRITERIA	FLORIDA INDUSTRIAL CRITERIA	FLORIDA LEACHABILITY TO GW CRITERIA	MAYPORT SS BACKGROUND CONCENTRATIONS	MPT04-SB03	MPT04-SB03	MPT04-SB03	MPT04-SB03
Sample Identifier					MPT04-SB03-05-022908	MPT04-SB03-07-022908	MPT04-SB03-09-022908	MPT04-SB03-11-022908
Sample Depth (feet bls)					5	7	9	11
Sample Date					2/28/2008	2/28/2008	2/28/2008	2/28/2008
PAHs (mg/kg)								
BENZO(A)ANTHRACENE	NC	NC	0.8	NA	0.0055 U	0.0050 U	0.0095 J	0.0085 U
BENZO(A)PYRENE	0.1	0.7	8	NA	0.0094 U	0.0085 U	0.0101 U	0.0145 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	NA	0.0129 U	0.0117 U	0.0612 J	0.0848 J
BENZO(K)FLUORANTHENE	NC	NC	24	NA	0.0116 U	0.0105 U	0.0124 U	0.0179 U
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	NA	0.0507 U	0.0459 U	0.0541 U	0.0782 U
CHRYSENE	NC	NC	77	NA	0.0083 U	0.0075 U	0.0088 U	0.0127 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	NA				
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	NA	0.0138 U	0.0125 U	0.0147 U	0.0212 U
BENZO(A)PYRENE EQUIVALENT	0.1	0.7			ND	ND	0.00707	0.00848
Pesticides/PCBs (mg/kg)								
AROCLOR-1254	NC	NC	NC	NA				
Inorganics (mg/kg)								
ARSENIC	2.1	12	NC	13.7	0.28	0.24	1.09	0.21 U
BARIUM	120	130000	1600	7.2	1.98	1.73	3.83	10.5 J
VANADIUM	67	10000	980	3.1				

TABLE 2
SUMMARY OF LABORATORY SUBSURFACE SOIL ANALYTICAL DETECTIONS

SOIL SAMPLING REPORT
SWMUs 2, 3, 4, 5, AND 22
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

Sample Location	FLORIDA RESIDENTIAL CRITERIA	FLORIDA INDUSTRIAL CRITERIA	FLORIDA LEACHABILITY TO GW CRITERIA	MAYPORT SS BACKGROUND CONCENTRATIONS	MPT04-SB04	MPT04-SB04	MPT04-SB04	MPT04-SB04
Sample Identifier					MPT04-SB04-05-022908	MPT04-SB04-07-022908	MPT04-SB04-09-022908	MPT04-SB04-11-022908
Sample Depth (feet bls)					5	7	9	11
Sample Date					2/28/2008	2/28/2008	2/28/2008	2/28/2008
PAHs (mg/kg)								
BENZO(A)ANTHRACENE	NC	NC	0.8	NA	0.0047 U	0.0052 U	0.0054 U	0.0051 U
BENZO(A)PYRENE	0.1	0.7	8	NA	0.0081 U	0.0088 U	0.0093 U	0.0087 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	NA	0.0111 U	0.0537 J	0.057 J	0.0509 J
BENZO(K)FLUORANTHENE	NC	NC	24	NA	0.0100 U	0.0108 U	0.0114 U	0.0108 U
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	NA	0.0434 U	0.0472 U	0.214 J	0.0469 U
CHRYSENE	NC	NC	77	NA	0.0071 U	0.0077 U	0.0081 U	0.0076 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	NA				
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	NA	0.0118 U	0.0128 U	0.0135 U	0.0127 U
BENZO(A)PYRENE EQUIVALENT	0.1	0.7			ND	0.00537	0.0057	0.00509
Pesticides/PCBs (mg/kg)								
AROCLOR-1254	NC	NC	NC	NA				
Inorganics (mg/kg)								
ARSENIC	2.1	12	NC	13.7	3.17	0.33	0.43	0.13 U
BARIUM	120	130000	1600	7.2	3.54 J	7.48 J	4.09 J	2.54 J
VANADIUM	67	10000	980	3.1				

TABLE 2
SUMMARY OF LABORATORY SUBSURFACE SOIL ANALYTICAL DETECTIONS

SOIL SAMPLING REPORT
SWMUs 2, 3, 4, 5, AND 22
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

Sample Location	FLORIDA RESIDENTIAL CRITERIA	FLORIDA INDUSTRIAL CRITERIA	FLORIDA LEACHABILITY TO GW CRITERIA	MAYPORT SS BACKGROUND CONCENTRATIONS	MPT-05-SB01	MPT-05-SB02	MPT-05-SB02	MPT-05-SB02
Sample Identifier					MPT05-SB01-04-022808	MPT05-SB02-04-022808	MPT05-SB02-06-022808	MPT05-SB02-08-022808
Sample Depth (feet bls)					4	4	6	8
Sample Date					2/28/2008	2/28/2008	2/28/2008	2/28/2008
PAHs (mg/kg)								
BENZO(A)ANTHRACENE	NC	NC	0.8	NA	0.0045 U	0.0051 U	0.0137 J	0.0048 U
BENZO(A)PYRENE	0.1	0.7	8	NA	0.0076 U	0.0088 U	0.0079 U	0.0082 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	NA	0.0104 U	0.0526 J	0.0612 J	0.0112 U
BENZO(K)FLUORANTHENE	NC	NC	24	NA	0.0094 U	0.0108 U	0.0102 J	0.0101 U
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	NA				
CHRYSENE	NC	NC	77	NA	0.0066 U	0.0077 U	0.0198 J	0.0072 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	NA	0.0058 U	0.0067 U	0.0060 U	0.0063 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	NA	0.0111 U	0.0128 U	0.0115 U	0.012 U
BENZO(A)PYRENE EQUIVALENT	0.1	0.7			ND	0.00526	0.0076118	ND
Pesticides/PCBs (mg/kg)								
AROCLOR-1254	NC	NC	NC	NA	0.194	0.0117 U	0.0105 U	0.0109 U
Inorganics (mg/kg)								
ARSENIC	2.1	12	NC	13.7	0.36	0.76	5.62	2.01
BARIUM	120	130000	1600	7.2	8.18	7.63	72.5	7.77
VANADIUM	67	10000	980	3.1	3.16 J	6.93 J	5.64 J	2.83 J

TABLE 2
SUMMARY OF LABORATORY SUBSURFACE SOIL ANALYTICAL DETECTIONS

SOIL SAMPLING REPORT
SWMUs 2, 3, 4, 5, AND 22
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

Sample Location	FLORIDA RESIDENTIAL CRITERIA	FLORIDA INDUSTRIAL CRITERIA	FLORIDA LEACHABILITY TO GW CRITERIA	MAYPORT SS BACKGROUND CONCENTRATIONS	MPT-05-SB02	MPT-05-SB03	MPT-05-SB03	MPT-05-SB04
Sample Identifier					MPT05-SB02-10-022808	MPT05-SB03-04-022808	MPT05-SB03-06-022808	MPT05-SB04-04-022808
Sample Depth (feet bls)					10	4	6	4
Sample Date					2/28/2008	2/28/2008	2/28/2008	2/28/2008
PAHs (mg/kg)								
BENZO(A)ANTHRACENE	NC	NC	0.8	NA	0.0051 U	0.0053 U	0.0058 U	0.0082 U
BENZO(A)PYRENE	0.1	0.7	8	NA	0.0087 U	0.0090 U	0.0099 U	0.014 U
BENZO(B)FLUORANTHENE	NC	NC	2.4	NA	0.0516 J	0.0523 J	0.0582 J	0.116 J
BENZO(K)FLUORANTHENE	NC	NC	24	NA	0.0107 U	0.0111 U	0.0122 U	0.0172 U
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	NA				
CHRYSENE	NC	NC	77	NA	0.0076 U	0.0079 U	0.0087 U	0.0122 U
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	NA	0.0066 U	0.0069 U	0.0076 U	0.0106 U
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	NA	0.0127 U	0.0131 U	0.0145 U	0.253 J
BENZO(A)PYRENE EQUIVALENT	0.1	0.7			0.00516	0.00523	0.00582	0.0369
Pesticides/PCBs (mg/kg)								
AROCLOR-1254	NC	NC	NC	NA	0.0115 U	0.121 U	0.13 U	0.933 U
Inorganics (mg/kg)								
ARSENIC	2.1	12	NC	13.7	0.82	0.15	0.46	**16.3**
BARIUM	120	130000	1600	7.2	10.2	7.56	7.08	40.2
VANADIUM	67	10000	980	3.1	1.83 J	3.18 J	2.96 J	45.6 J

TABLE 2
SUMMARY OF LABORATORY SUBSURFACE SOIL ANALYTICAL DETECTIONS

SOIL SAMPLING REPORT
SWMUs 2, 3, 4, 5, AND 22
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

Sample Location	FLORIDA RESIDENTIAL CRITERIA	FLORIDA INDUSTRIAL CRITERIA	FLORIDA LEACHABILITY TO GW CRITERIA	MAYPORT SS BACKGROUND CONCENTRATIONS	MPT-05-SB04	MPT-05-SB04	MPT-05-SB04	MPT-22-SB01
Sample Identifier					MPT05-SB04-06-022808	MPT05-SB04-08-022808	MPT05-SB04-10-022808	MPT22-SB01-04-121807
Sample Depth (feet bls)					6	8	10	4
Sample Date					2/28/2008	2/28/2008	2/28/2008	12/18/2007
PAHs (mg/kg)								
BENZO(A)ANTHRACENE	NC	NC	0.8	NA	0.0054 U	0.0053 U	0.0053 U	
BENZO(A)PYRENE	0.1	0.7	8	NA	0.0092 U	0.0091 U	0.0090 U	
BENZO(B)FLUORANTHENE	NC	NC	2.4	NA	0.0125 U	0.0124 U	0.0519 J	
BENZO(K)FLUORANTHENE	NC	NC	24	NA	0.0113 U	0.0112 U	0.011 U	
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	NA				
CHRYSENE	NC	NC	77	NA	0.0080 U	0.0079 U	0.0078 U	
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	NA	0.0070 U	0.0069 U	0.0068 U	
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	NA	0.0134 U	0.0132 U	0.0131 U	
BENZO(A)PYRENE EQUIVALENT	0.1	0.7			ND	ND	0.00519	
Pesticides/PCBs (mg/kg)								
AROCLOR-1254	NC	NC	NC	NA	0.0121 U	0.0121 U	0.0119 U	
Inorganics (mg/kg)								
ARSENIC	2.1	12	NC	13.7	0.33	0.69	0.93	1.13
BARIUM	120	130000	1600	7.2	6.95	3.47	3.44	
VANADIUM	67	10000	980	3.1	2.6 J	1.48 J	2.27 J	

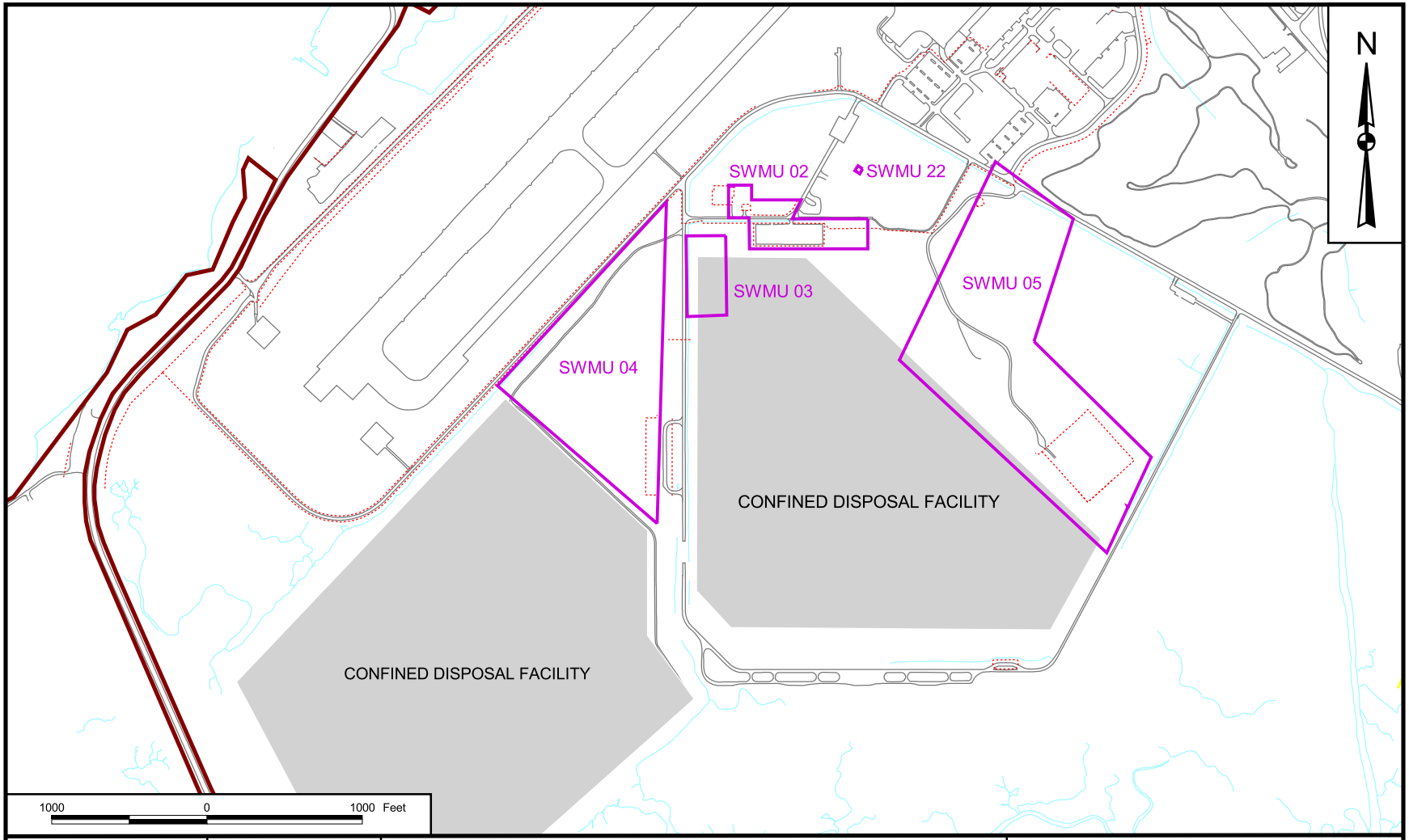
TABLE 2
SUMMARY OF LABORATORY SUBSURFACE SOIL ANALYTICAL DETECTIONS

SOIL SAMPLING REPORT
SWMUs 2, 3, 4, 5, AND 22
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

Sample Location	FLORIDA RESIDENTIAL CRITERIA	FLORIDA INDUSTRIAL CRITERIA	FLORIDA LEACHABILITY TO GW CRITERIA	MAYPORT SS BACKGROUND CONCENTRATIONS	MPT-22-SB02	MPT-22-SB03	MPT-22-SB04	MPT-22-SB05
Sample Identifier					MPT22-SB02-04-121807	MPT22-SB03-04-121807	MPT22-SB04-04-121807	MPT22-SB05-04-121807
Sample Depth (feet bls)					4	4	4	4
Sample Date					12/18/2007	12/18/2007	12/18/2007	12/18/2007
PAHs (mg/kg)								
BENZO(A)ANTHRACENE	NC	NC	0.8	NA				
BENZO(A)PYRENE	0.1	0.7	8	NA				
BENZO(B)FLUORANTHENE	NC	NC	2.4	NA				
BENZO(K)FLUORANTHENE	NC	NC	24	NA				
BIS(2-ETHYLHEXYL)PHTHALATE	72	390	3600	NA				
CHRYSENE	NC	NC	77	NA				
DIBENZO(A,H)ANTHRACENE	NC	NC	0.7	NA				
INDENO(1,2,3-CD)PYRENE	NC	NC	6.6	NA				
BENZO(A)PYRENE EQUIVALENT	0.1	0.7						
Pesticides/PCBs (mg/kg)								
AROCLOR-1254	NC	NC	NC	NA				
Inorganics (mg/kg)								
ARSENIC	2.1	12	NC	13.7	2.59	0.76	1.42	1.35
BARIUM	120	130000	1600	7.2				
VANADIUM	67	10000	980	3.1				

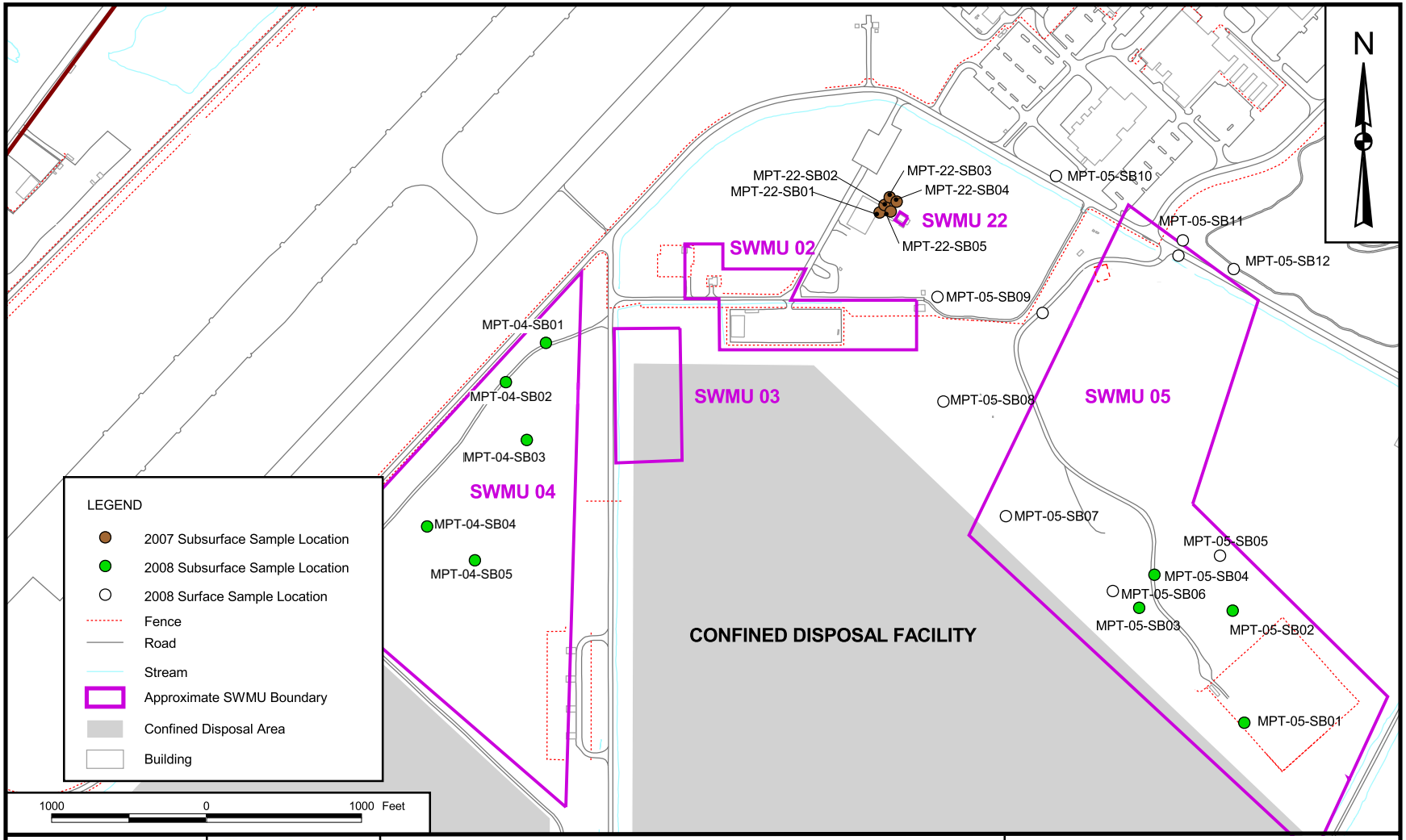
Notes:
Results are in milligrams per kilogram (mg/kg).
Bold values indicate an exceedance of regualtory criteria.
bls = Below land surface.
NC = No criteria. FDEP requires these analytes to be evaluated using a benzo(a)pyrene equivalent calculation. The result of the calculation is compared to the benzo(a)pyrene criteria.
NA = No applicable background concentration.
ND = Not detected.
U = The analyte was not detected in excess of the detection limit, whose value is shown.
J = The analyte was detected at the shown estimated concentration.

FIGURES



DRAWN BY: MK BOND	DATE: 8/03/09	SWMU LOCATION MAP SWMUS 2, 3, 4, 5, & 22 SOIL SAMPLING REPORT NAVAL STATION MAYPORT MAYPORT, FLORIDA	CONTRACT NUMBER: CTO 0010
CHECKED BY: G. ROOF	DATE: 9/25/09		APPROVED BY: — DATE: —
COST/SCHEDULE-AREA			APPROVED BY: — DATE: —
SCALE: AS NOTED			DRAWING NO.: FIGURE 1 / REV: 0

P:\GIS\MAYPORT_NS\SWMUS02_03_04_05_22.APR SWMU LOCATION MAP (LO) 7/06/09 SS



DRAWN BY	DATE
S. STROZ	7/06/09
CHECKED BY	DATE
G. ROOF	9/25/09
COST/SCHEDULE-AREA	
SCALE	
AS NOTED	

NAVFAC

2007 AND 2008 SOIL SAMPLING LOCATIONS
SWMUs 2, 3, 4, 5, AND 22
SOIL SAMPLING REPORT
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	
CTO 0010	
APPROVED BY	DATE
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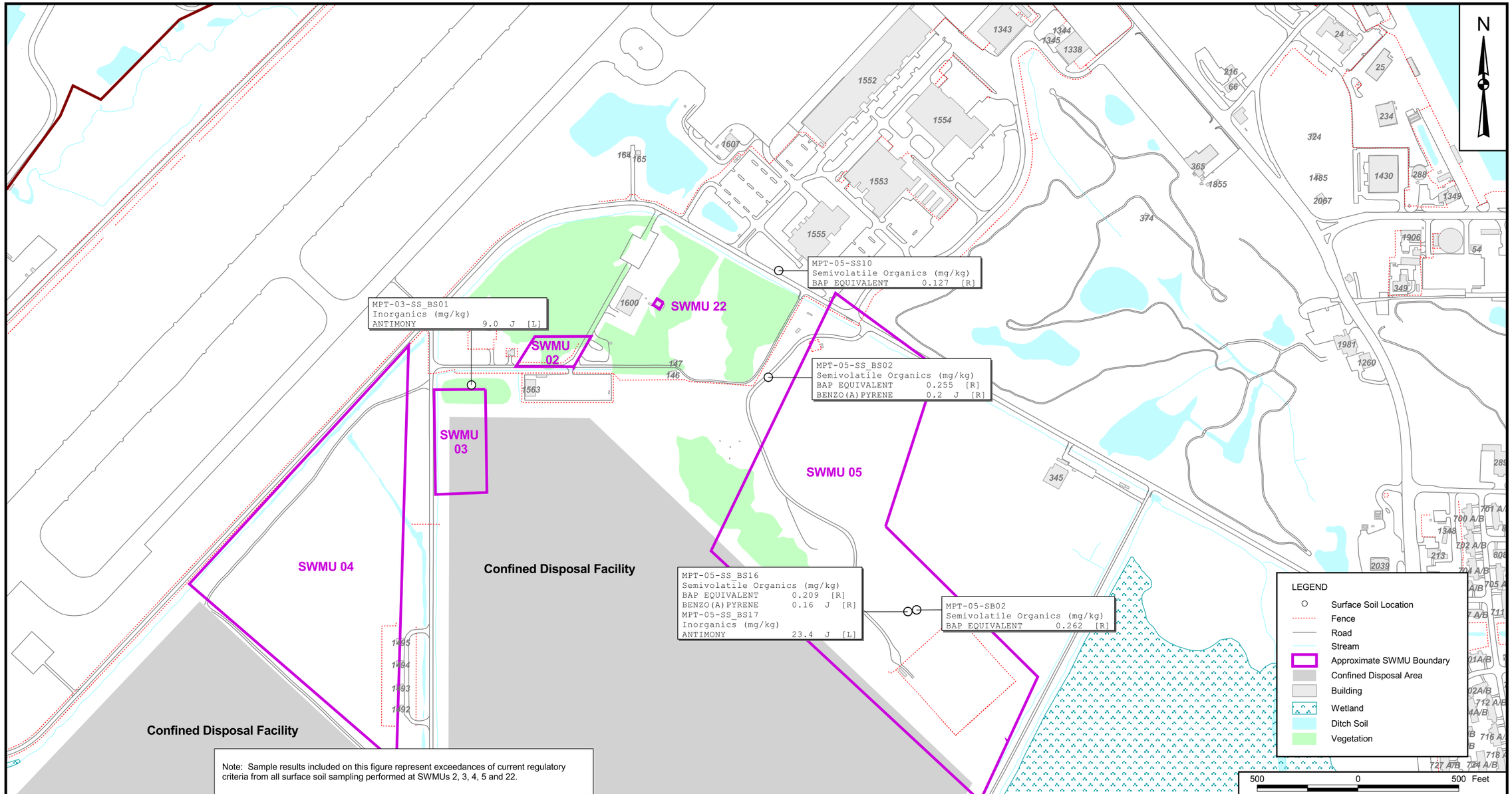
APPROVED BY	DATE
—	—
DRAWING NO.	REV
FIGURE 2	0

P:\GIS\MAYPORT_NS\SWMUS02_03_04_05_22.APR 2007 AND 2008 SOIL SAMPLE LOCATIONS LAYOUT 7/06/09 SS

P:\GIS\MAYPORT_NS\SWMUS02_03_04_05_22.APR VARIOUS SWMU SURFACE SOIL TAG LAYOUT 10/06/09 SS



Note: Sample results included on this figure represent exceedances of current regulatory criteria from all surface soil sampling performed at SWMUs 2, 3, 4, 5 and 22.

FRACTION	PARAMETER	UNITS	CAS	FL RESIDENTIAL	FL INDUSTRIAL	FL LEACH	BACKGROUND-SS	MINIMUM CRITERIA
OS	BENZO(A)PYRENE	MG/KG	50-32-8	0.1	0.7	8	NA	0.1
OS	BENZO(A)ANTHRACENE	MG/KG	56-55-3	NA	NA	0.8	NA	0.8
M	ANTIMONY	MG/KG	7440-36-0	27	370	5.4	NA	5.4
M	ARSENIC	MG/KG	7440-38-2	2.1	12	NA	13.7	2.1
OS	BAP EQUIVALENT	MG/KG	CALCO13	0.1	0.7	8	NA	0.1
PET	TPH (C08-C40)	MG/KG	TTNUS599	460	2700	340	NA	340

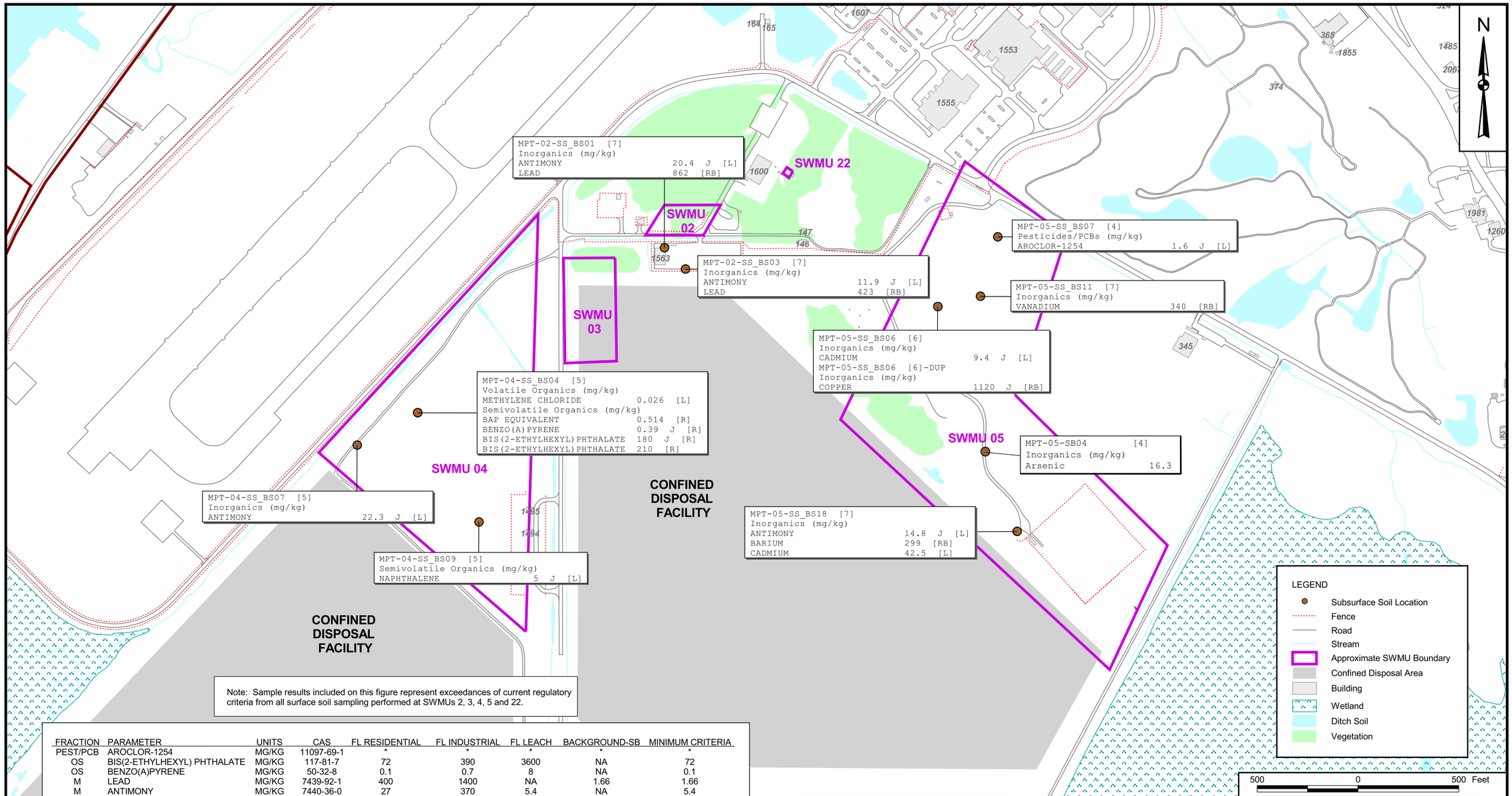
DRAWN BY S. STROZ	DATE 06/24/09
CHECKED BY G. ROOF	DATE 10/06/09
COST/SCHED-AREA	
SCALE AS NOTED	

NAVFAC

SURFACE SOIL RESULTS
SWMUS 2, 3, 4, 5, & 22
NAVAL STATION MAYPORT
MAYPORT, FLORIDA

CONTRACT NO. 0010	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 3	REV. 0

P:\GIS\MAYPORT_NS\SWMUS02_03_04_05_22.APR VARIOUS SWMU SUBSURFACE SOIL TAG LAYOUT 10/07/09 SS



Note: Sample results included on this figure represent exceedances of current regulatory criteria from all surface soil sampling performed at SWMUs 2, 3, 4, 5 and 22.

FRACTION	PARAMETER	UNITS	CAS	FL RESIDENTIAL	FL INDUSTRIAL	FL LEACH	BACKGROUND-SB	MINIMUM CRITERIA
PEST/PCB	AROCLOR-1254	MG/KG	11097-69-1	*	*	*	*	*
OS	BIS(2-ETHYLHEXYL) PHTHALATE	MG/KG	117-81-7	72	390	3600	NA	72
OS	BENZO(A)PYRENE	MG/KG	50-32-8	0.1	0.7	8	NA	0.1
M	LEAD	MG/KG	7439-92-1	400	1400	NA	1.66	1.66
M	ANTIMONY	MG/KG	7440-36-0	27	370	5.4	NA	5.4
M	ARSENIC	MG/KG	7440-38-2	2.1	12	NA	13.7	2.1
M	BARIUM	MG/KG	7440-39-3	120	130000	1600	7.2	7.2
M	CADMIUM	MG/KG	7440-43-9	82	1700	7.5	NA	7.5
M	COPPER	MG/KG	7440-50-8	150	89000	NA	2.1	2.1
M	VANADIUM	MG/KG	7440-62-2	67	10000	980	3.1	3.1
OV	METHYLENE CHLORIDE	MG/KG	75-09-2	17	26	0.02	NA	0.02
OS	NAPHTHALENE	MG/KG	91-20-3	55	300	1.2	NA	1.2
OS	BAP EQUIVALENT	MG/KG	CALCO13	0.1	0.7	8	NA	0.1

* The FDEP requires that Arochlor 1254 detections be compared to "PCBs [or Arochlor mixture] "residential (0.5 mg/kg), industrial (2.6 mg/kg) and leachability (17 mg/kg) criteria."

DRAWN BY S. STROZ	DATE 06/24/09
CHECKED BY G. ROOF	DATE 10/07/09
COST/SCHED-AREA	
SCALE AS NOTED	

NAVFAC

SUBSURFACE SOIL RESULTS
SWMUs 2, 3, 4, 5, AND 22
SOIL SAMPLING REPORT
NAVAL STATION MAYPORT
JACKSONVILLE, FLORIDA

CONTRACT NO. 0010	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 4	REV. 0

ATTACHMENT 1

TABLES AND FIGURES
FROM THE TtNUS 2007 SOIL SAMPLING WORK PLAN

TABLE 2
SWMU 5, EXCEEDANCES OF COCs IN SURFACE SOIL
NAVSTA MAYPORT - MAYPORT, FLORIDA

Chemical of Concern	Sample ID	Sample Date	Detected Concentration	Media Cleanup Standard
Benzo(a)pyrene Equivalents [1]	05SS00201	8/11/1994	0.255	0.1
	05SS01601	9/7/1994	0.209	
Aroclor-1260	05SS01601	9/7/1994	0.1 J	0.002
Antimony	05SS01701	8/11/1994	23.4 J	5.4
Arsenic	05SS00101	8/11/1994	1.3 J	1.1
	05SS00201	8/11/1994	1.4 J	
	05SS00301	9/7/1994	1.4 J	
	05SS00401	8/11/1994	2.9	
	05SS00701	8/29/1994	2.3 J	
	05SS00901	8/10/1994	2.3	
	05SS01201	8/11/1994	1.9 J	
	05SS01301	8/10/1994	4.2	
	05SS01501	9/7/1994	6.9	
	05SS01601	9/7/1994	1.5 J	
	05SS01701	8/11/1994	1.3 J	
Chromium	02SS00401	8/30/1994	10.8	4.2
	05SS00101	8/11/1994	4.6	
	05SS00201	8/11/1994	5.5	
	05SS00301	9/7/1994	5.6	
	05SS00401	8/11/1994	8.2	
	05SS00601	8/10/1994	9.8	
	05SS00701	8/29/1994	12.7	
	05SS00901	8/10/1994	6.4	
	05SS01101	8/29/1994	10.1	
	05SS01301	8/10/1994	11.9	
	05SS01501	9/7/1994	15.5	
	05SS01601	9/7/1994	9.5	
	05SS01701	8/11/1994	6.2	
	05SS01801	9/7/1994	8.3	
	05SS01901	8/29/1994	7.1	
	05SS02001	8/29/1994	5.4	
	05SS02101	8/29/1994	4.9	
Cyanide	02SS00401	8/30/1994	0.18 J	0.004
	05SS00201	8/11/1994	0.19 J	
	05SS00601	8/10/1994	0.18 J	
	05SS00701	8/29/1994	0.08 J	
	05SS00901	8/10/1994	0.39 J	
	05SS01001	8/10/1994	0.58	
	05SS01101	8/29/1994	0.06 J	
	05SS01201	8/11/1994	0.36 J	
	05SS01401	8/11/1994	0.35 J	
	05SS01501	9/7/1994	0.19 J	
	05SS01701	8/11/1994	0.24 J	
	05SS01901	8/29/1994	0.05 J	
	05SS02001	8/29/1994	0.06 J	
	05SS02101	8/29/1994	0.05 J	
Mercury	05SS00301-D	9/7/1994	0.12	0.01
	05SS01101	8/29/1994	0.18	
	05SS01301	8/10/1994	0.05 J	
	05SS01501	9/7/1994	0.07	
	05SS01601	9/7/1994	0.06	
	05SS01801	9/7/1994	0.09	

Note: [1] Site concentrations for carcinogenic polycyclic aromatic hydrocarbons must be converted to Benzo(a)pyrene equivalents before comparison with the appropriate direct exposure SCTL for Benzo(a)pyrene using the approach described in the February 2005 'Final Technical Report: Development of Cleanup Target Levels for Chapter 62-777, F.A.C.' Contaminants considered for subsurface soil benzo(a)pyrene equivalent calculations at SWMU 5 are benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene.

TABLE 5
SWMU 2, EXCEEDANCES OF COCs IN SUBSURFACE SOIL
NAVSTA MAYPORT - MAYPORT, FLORIDA

Chemical of Concern	Sample ID	Sample Date	Detected Concentration	Media Cleanup Standard
3&4-Methylphenol	02BS00107	8/30/1994	0.048 J	0.03
	02BS00307	8/30/1994	0.098 J	
Antimony	02BS00107	8/30/1994	20.4 J	5.4
	02BS00307	8/30/1994	11.9 J	
Arsenic	02BS00107	8/30/1994	3.2	2.1
	02BS00307	8/30/1994	2.6	
Lead	02BS00107	8/30/1994	862	400
	02BS00307	8/30/1994	423	

TABLE 7
SWMU 3, EXCEEDANCES OF COCs IN SUBSURFACE SOIL
NAVSTA MAYPORT - MAYPORT, FLORIDA

Chemical of Concern	Sample ID	Sample Date	Detected Concentration	Media Cleanup Standard
Benzo(a)pyrene Equivalents [1]	03SS00524	7/23/1994	0.134 J	0.1
Arsenic	03BS00108	7/25/1994	1.7 J	1.1
Arsenic	03BS00208	7/25/1994	1.9 J	
Arsenic	03BS00532	7/23/1994	1.5 J	
Arsenic	03BS00632	7/24/1994	2.2 J	
Arsenic	03BS00732	7/24/1994	2.8 J	
Arsenic	03SS00524	7/23/1994	12.8	
Arsenic	03SS00624	7/24/1994	13.5	
Arsenic	03SS00824	7/25/1994	15.6 J	

Notes:

[1] Site concentrations for carcinogenic polycyclic aromatic hydrocarbons must be converted to Benzo(a)pyrene equivalents before comparison with the appropriate direct exposure SCTL for Benzo(a)pyrene using the approach described in the February 2005 'Final

TABLE 9
SWMU 4, EXCEEDANCES OF COCs IN SUBSURFACE SOIL
NAVSTA MAYPORT - MAYPORT, FLORIDA

Chemical of Concern	Sample ID	Sample Date	Detected Concentration	Media Cleanup Standard
1,4-Dichlorobenzene	04BS00405	8/9/1994	0.19 J	0.09
Methylene Chloride	04BS00405	8/9/1994	0.026	0.02
3&4-Methylphenol	04BS00111-D	8/27/1994	0.19 J	0.03
Benzo(a)pyrene Equivalents [1]	04BS00405	8/9/1994	0.514	0.1
Bis(2-Ethylhexyl)phthalate	04BS00405DL	8/9/1994	210	24
Fluoranthene	04BS00405	8/9/1994	1.4 J	1.3
Naphthalene	04BS00905	8/9/1994	5 J	1.2
Aroclor-1260	04BS00405	8/9/1994	0.28	0.002
	04BS00509	8/27/1994	0.14	
Dieldrin	04BS00705	8/24/1994	0.00082	0.0001
Endosulfan II	04BS00705	8/24/1994	0.0072	0.0008
Antimony	04BS00705	8/24/1994	22.3 J	5.4
	MPT-02-16S	1/24/1992	10.5 J	
Arsenic	04BS00111	8/27/1994	3.4 J	0.7
	04BS00209	8/24/1994	1.4 J	
	04BS00310	8/10/1994	1.7 J	
	04BS00405	8/9/1994	1.6 J	
	04BS00509	8/27/1994	1.6 J	
	04BS00611	8/24/1994	0.71 J	
	04BS00705	8/24/1994	1.4 J	
	04BS00905	8/9/1994	1 J	
	04BS01008-D	8/9/1994	0.92 J	
Barium	04BS00310	8/10/1994	152	60
	04BS00705	8/24/1994	117 J	
Chromium	04BS00111-D	8/27/1994	28.2	4.2
	04BS00310	8/10/1994	7	
	04BS00405	8/9/1994	12.9	
	04BS00509	8/27/1994	18.3	
	04BS00705	8/24/1994	20.6	
	04BS00905	8/9/1994	10.4	
Mercury	04BS00310	8/10/1994	0.09 J	0.05
	04BS00405	8/9/1994	0.22	
	04BS00705	8/24/1994	0.13	
Selenium	04BS00111	8/27/1994	0.94 J	0.5
	04BS00310	8/10/1994	0.64 J	
Silver	04BS00310	8/10/1994	0.61 J	0.01

Notes:

[1] Site concentrations for carcinogenic polycyclic aromatic hydrocarbons must be converted to Benzo(a)pyrene equivalents before comparison with the appropriate direct exposure SCTL for Benzo(a)pyrene using the approach described in the February 2005 'Final

TABLE 11
SWMU 5, EXCEEDANCES OF COCs IN SUBSURFACE SOIL
NAVSTA MAYPORT - MAYPORT, FLORIDA

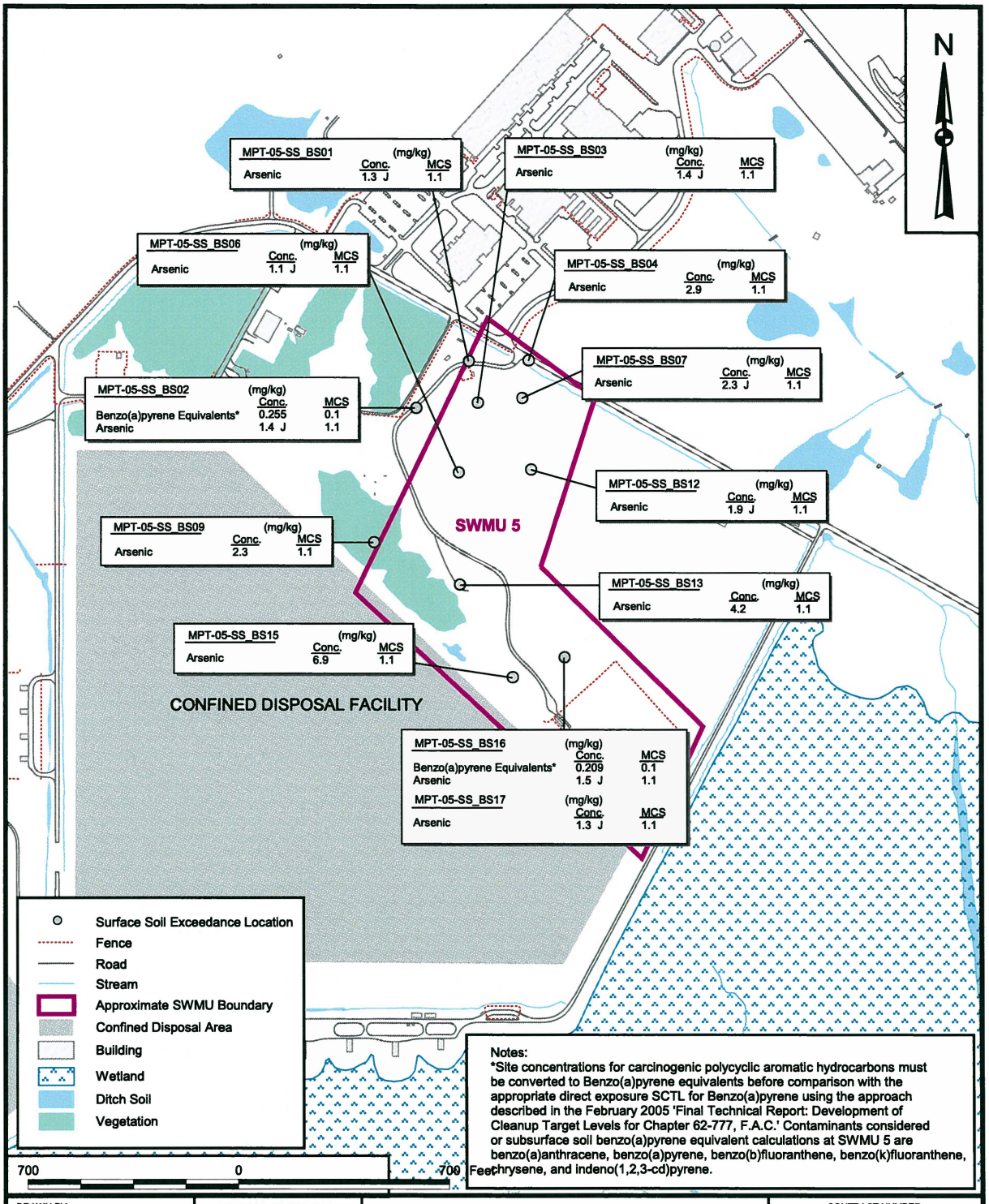
Chemical of Concern	Sample ID	Sample Date	Detected Concentration	Media Cleanup Standard
3&4-Methylphenol	05BS00306	8/27/1994	0.087 J	0.03
	05BS00704	8/29/1994	0.25 J	
	05BS01610	8/29/1994	0.12 J	
Benzo(a)pyrene Equivalents [1]	05BS00909	8/28/1994	0.137	0.1
	05BS02009	8/29/1994	0.588	
Aroclor-1254	05BS00704	8/29/1994	1.6 J	0.17
Arsenic	05BS00107	8/27/1994	2.2 J	0.7
	05BS00208	8/27/1994	4.5	
	05BS00306	8/27/1994	1.9 J	
	05BS00409	8/29/1994	10.3	
	05BS00509	8/28/1994	3.8	
	05BS00606	8/27/1994	2.4 J	
	05BS00909-D	8/28/1994	5.7	
	05BS01009	8/28/1994	2 J	
	05BS01307	8/27/1994	4.2	
	05BS01509	8/28/1994	2.3 J	
	05BS01610	8/29/1994	2.8	
	05BS01709	8/28/1994	2.9	
	05BS01807	8/29/1994	1.7 J	
	05BS01909	8/29/1994	2.7 J	
	MPT-02-11S	1/24/1992	0.91 J	
	MPT-02-17S	1/24/1992	0.86 J	
Barium	05BS01509	8/28/1994	166	60
	05BS01610	8/29/1994	96.2	
	05BS01807	8/29/1994	299	
Cadmium	05BS00606	8/27/1994	9.4 J	7.5
	05BS01807	8/29/1994	42.5	
Chromium	05BS00107	8/27/1994	6.8	4.2
	05BS00208	8/27/1994	8.2	
	05BS00306	8/27/1994	20.2	
	05BS00409	8/29/1994	32.6	
	05BS00509	8/28/1994	10.8	
	05BS00606	8/27/1994	9.7	
	05BS00704	8/29/1994	15.4	
	05BS00909	8/28/1994	11	
	05BS01009	8/28/1994	7.6	
	05BS01107	8/29/1994	26.9	
	05BS01307	8/27/1994	8.8	
	05BS01509	8/28/1994	22.6	
	05BS01610	8/29/1994	58.1	
	05BS01709	8/28/1994	8.7	
	05BS01807	8/29/1994	29.8	
	05BS01909	8/29/1994	11.8	
	05BS02009	8/29/1994	6.8	
	MPT-02-17S	1/24/1992	4.3 J	
Cyanide	05BS01509	8/28/1994	6.8	0.3
Mercury	05BS00409	8/29/1994	0.38	0.05
	05BS00509	8/28/1994	0.15 J	
	05BS00606	8/27/1994	0.1	
Nickel	05BS01107	8/29/1994	33.5	11
	05BS01509	8/28/1994	19.4	
	05BS01610	8/29/1994	341	
Silver	05BS00606	8/27/1994	0.63 J	0.01
	05BS00909	8/28/1994	0.57 J	
	05BS01509	8/28/1994	0.61 J	
	05BS01610	8/29/1994	0.70 J	
Vanadium	05BS01107	8/29/1994	340	67

Notes:

[1] Site concentrations for carcinogenice polycyclic aromatic hydrocarbons must be converted to Benzo(a)pyrene equivalents before comparison with the appropriate direct exposure SCTL for Benzo(a)pyrene using the approach described in the February 2005 'Final Technical Report: Development fo Cleanup Target Levels for Chapter 62-777, F.A.C.' Contaminants considered for subsurface soil benzo(a)pyrene equivalent calculations at SWMU 4 are benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

TABLE 13
SWMU 22, EXCEEDANCES OF COCs IN SUBSURFACE SOIL
NAVSTA MAYPORT - MAYPORT, FLORIDA

Chemical of Concern	Sample ID	Sample Date	Detected Concentration	Media Cleanup Standard
Arsenic	MPT-22-1S	1/24/1992	3.7 J	2.1
Arsenic	MPT-22-L-1	3/11/1992	3.4	



Notes:
*Site concentrations for carcinogenic polycyclic aromatic hydrocarbons must be converted to Benzo(a)pyrene equivalents before comparison with the appropriate direct exposure SCTL for Benzo(a)pyrene using the approach described in the February 2005 'Final Technical Report: Development of Cleanup Target Levels for Chapter 62-777, F.A.C.' Contaminants considered or subsurface soil benzo(a)pyrene equivalent calculations at SWMU 5 are benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene.

DRAWN BY MK BOND DATE 5/22/06	NAVFAC	SURFACE SOIL EXCEEDANCES SOIL SAMPLING WORK PLAN SWMU 5 - LANDFILL "F" NAVAL STATION MAYPORT MAYPORT, FLORIDA	CONTRACT NUMBER
CHECKED BY S. BALLARD DATE 8/21/06			APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED			DRAWING NO. FIGURE 2 REV 0

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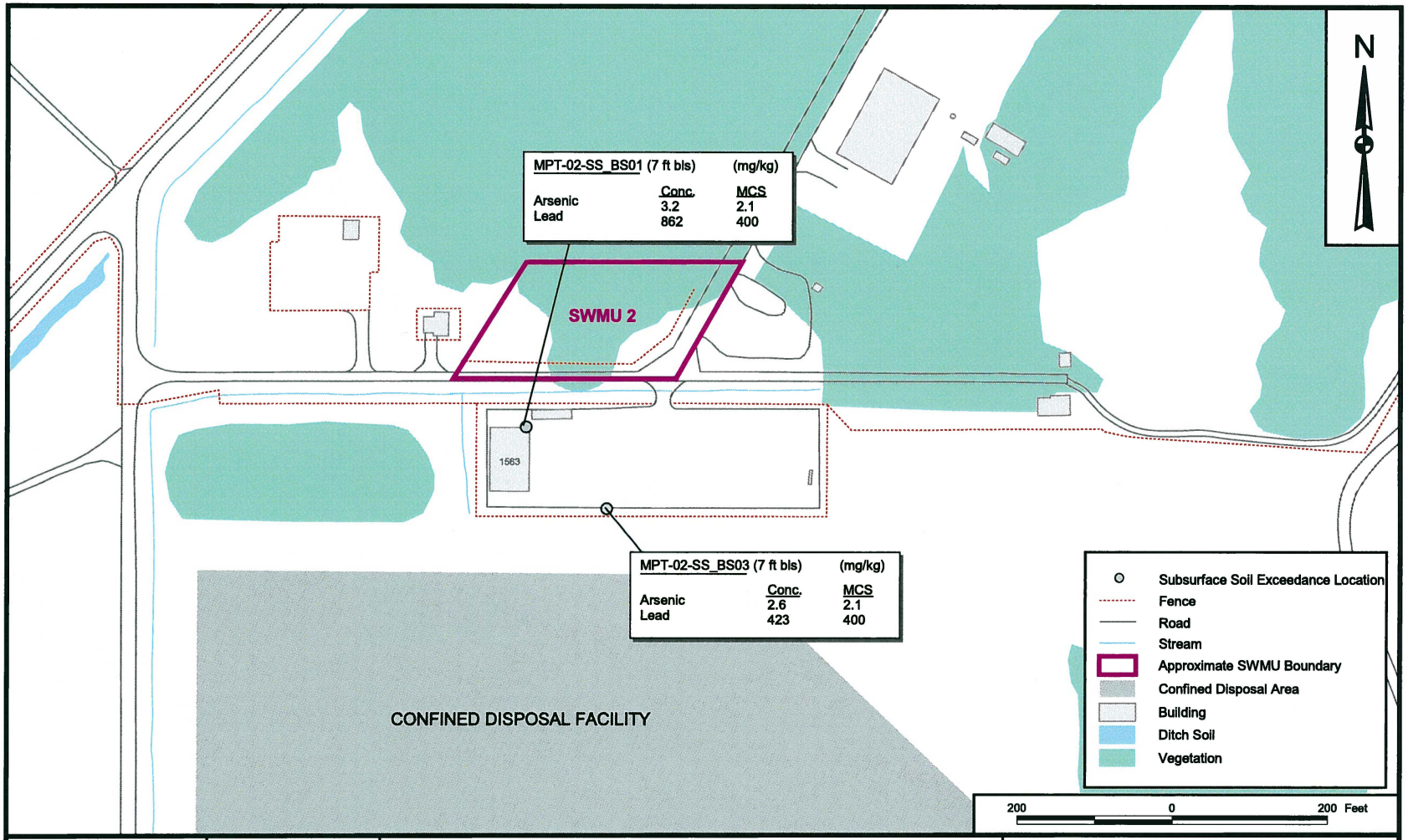


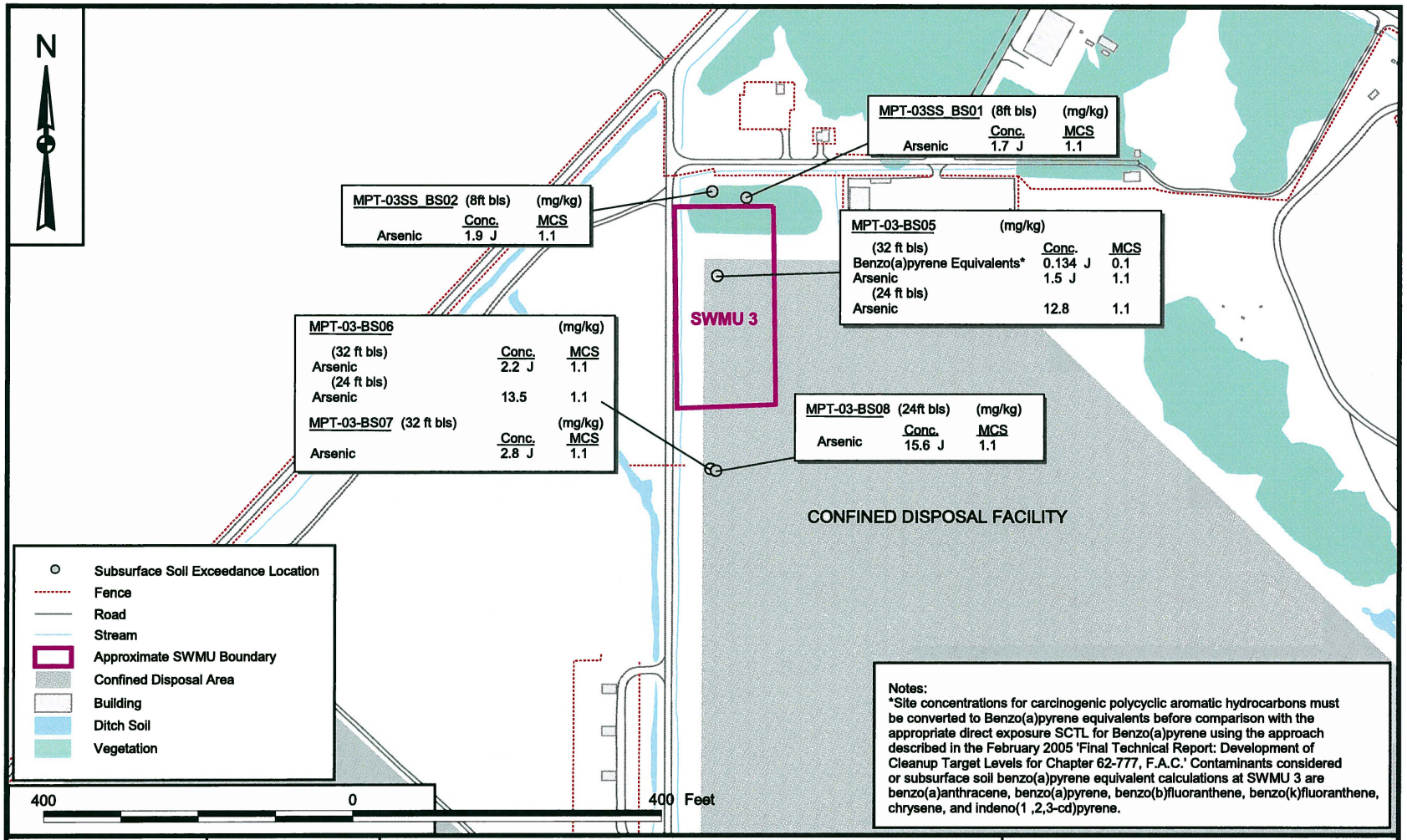
DRAWN BY	DATE
MK BOND	5/22/06
CHECKED BY	DATE
S. BALLARD	8/21/06
COST/SCHEDULE-AREA	
SCALE AS NOTED	

NAVFAC

SUBSURFACE SOIL EXCEEDANCES
SOIL SAMPLING WORK PLAN
SWMU 2 - LANDFILL "B"
NAVAL STATION MAYPORT
MAYPORT, FLORIDA

CONTRACT NUMBER	
APPROVED BY —	DATE —
APPROVED BY —	DATE —
DRAWING NO. FIGURE 3	REV 0

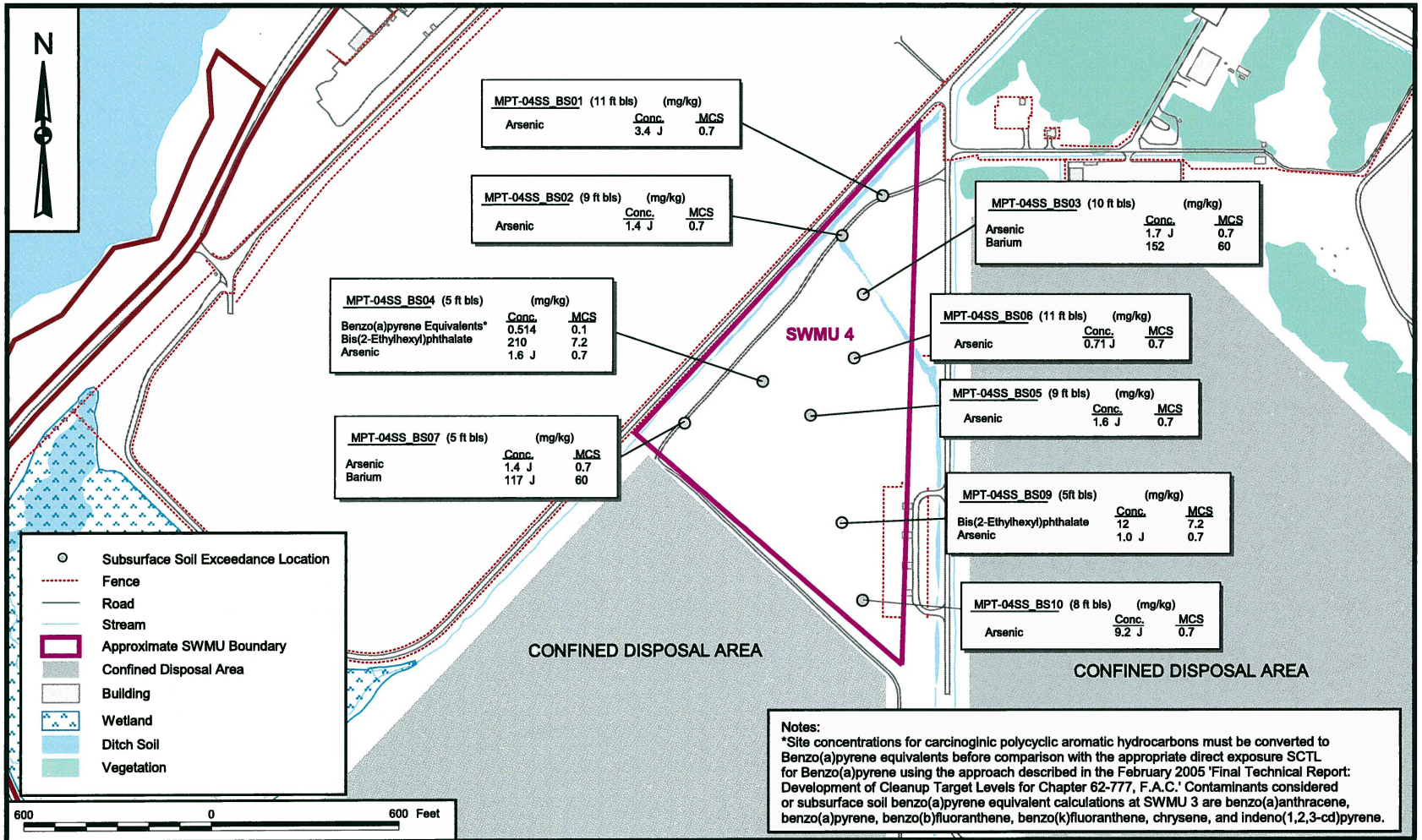
P:\GIS\MAYPORT_NS\SWMUS02_03_04_05_22.APR SWMU 02 SUBSURFACE SOIL SAMPLES TAG LAYOUT 8/21/06 SP



Notes:
*Site concentrations for carcinogenic polycyclic aromatic hydrocarbons must be converted to Benzo(a)pyrene equivalents before comparison with the appropriate direct exposure SCTL for Benzo(a)pyrene using the approach described in the February 2005 'Final Technical Report: Development of Cleanup Target Levels for Chapter 62-777, F.A.C.' Contaminants considered or subsurface soil benzo(a)pyrene equivalent calculations at SWMU 3 are benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1 ,2,3-cd)pyrene.

DRAWN BY MK BOND DATE 5/22/06	NAVFAC	SUBSURFACE SOIL EXCEEDANCES SOIL SAMPLING WORK PLAN SWMU 3 - LANDFILL "D" NAVAL STATION MAYPORT MAYPORT, FLORIDA	CONTRACT NUMBER
CHECKED BY S. BALLARD DATE 8/21/06			APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED			DRAWING NO. FIGURE 4 REV 0

P:\GIS\MAYPORT_NS\SWMUS02_03_04_05_22.APR SWMU 03 SUBSURFACE SOIL SAMPLES TAG LAYOUT 8/21/06 SP



Notes:
*Site concentrations for carcinoginic polycyclic aromatic hydrocarbons must be converted to Benzo(a)pyrene equivalents before comparison with the appropriate direct exposure SCTL for Benzo(a)pyrene using the approach described in the February 2005 'Final Technical Report: Development of Cleanup Target Levels for Chapter 62-777, F.A.C.' Contaminants considered or subsurface soil benzo(a)pyrene equivalent calculations at SWMU 3 are benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene.

DRAWN BY	DATE
MK BOND	5/22/06
CHECKED BY	DATE
S. BALLARD	8/21/06
COST/SCHEDULE-AREA	
SCALE	AS NOTED

NAVFAC

SUBSURFACE SOIL EXCEEDANCES
SOIL SAMPLING WORK PLAN
SWMU 4 - LANDFILL "E"
NAVAL STATION MAYPORT
MAYPORT, FLORIDA

CONTRACT NUMBER	
APPROVED BY —	DATE —
APPROVED BY —	DATE —
DRAWING NO. FIGURE 5	REV 0

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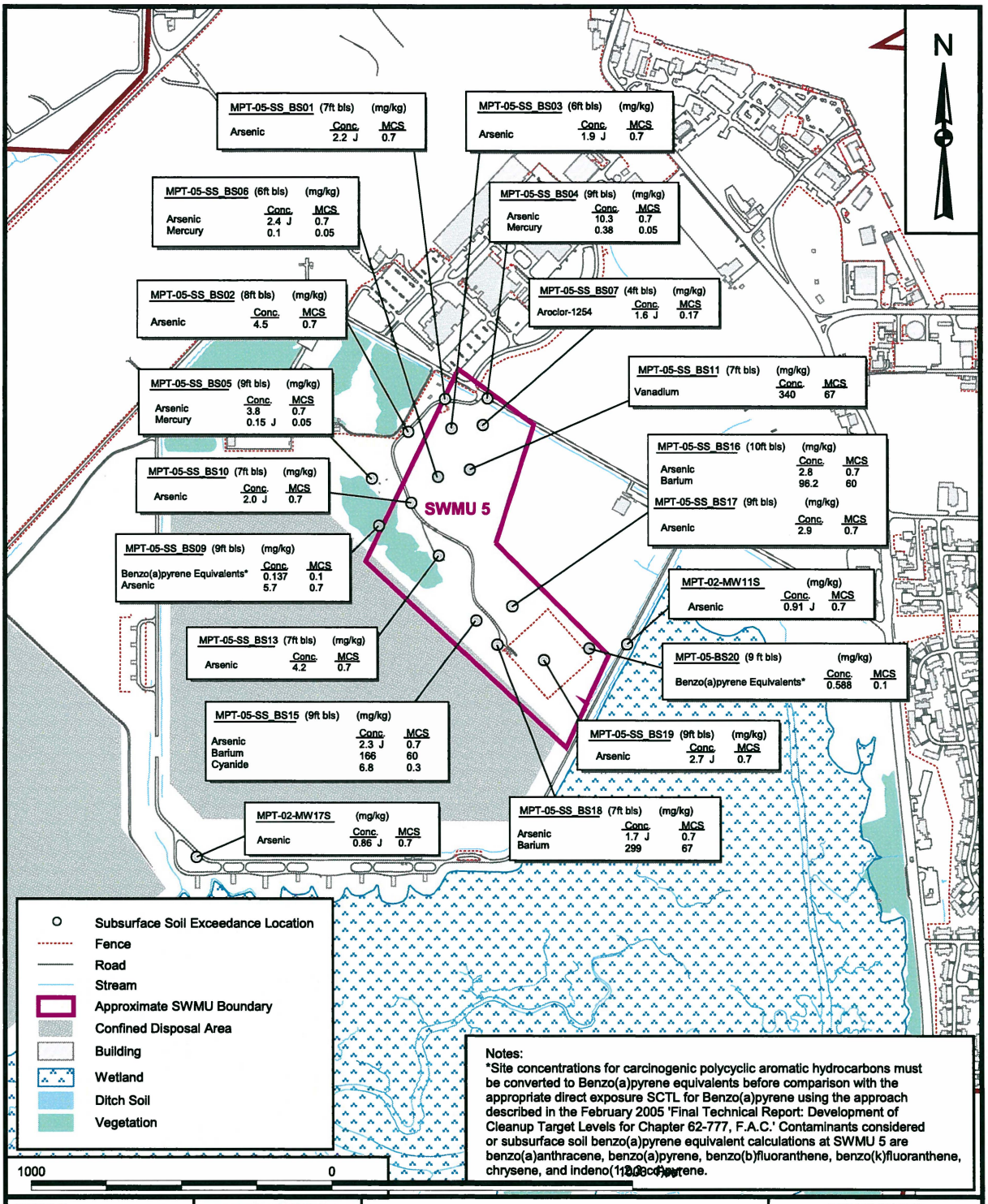

Notes:
*Site concentrations for carcinogenic polycyclic aromatic hydrocarbons must be converted to Benzo(a)pyrene equivalents before comparison with the appropriate direct exposure SCTL for Benzo(a)pyrene using the approach described in the February 2005 'Final Technical Report: Development of Cleanup Target Levels for Chapter 62-777, F.A.C.' Contaminants considered or subsurface soil benzo(a)pyrene equivalent calculations at SWMU 5 are benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene.

DRAWN BY MK BOND	DATE 5/22/06	SUBSURFACE SOIL EXCEEDANCES SOIL SAMPLING WORK PLAN SWMU 5 - LANDFILL "F" NAVAL STATION MAYPORT MAYPORT, FLORIDA	CONTRACT NUMBER
CHECKED BY S. BALLARD	DATE 8/21/06		APPROVED BY — DATE —
COST/SCHEDULE-AREA			APPROVED BY — DATE —
SCALE AS NOTED		NAVFAC	DRAWING NO. FIGURE 6 / REV 0

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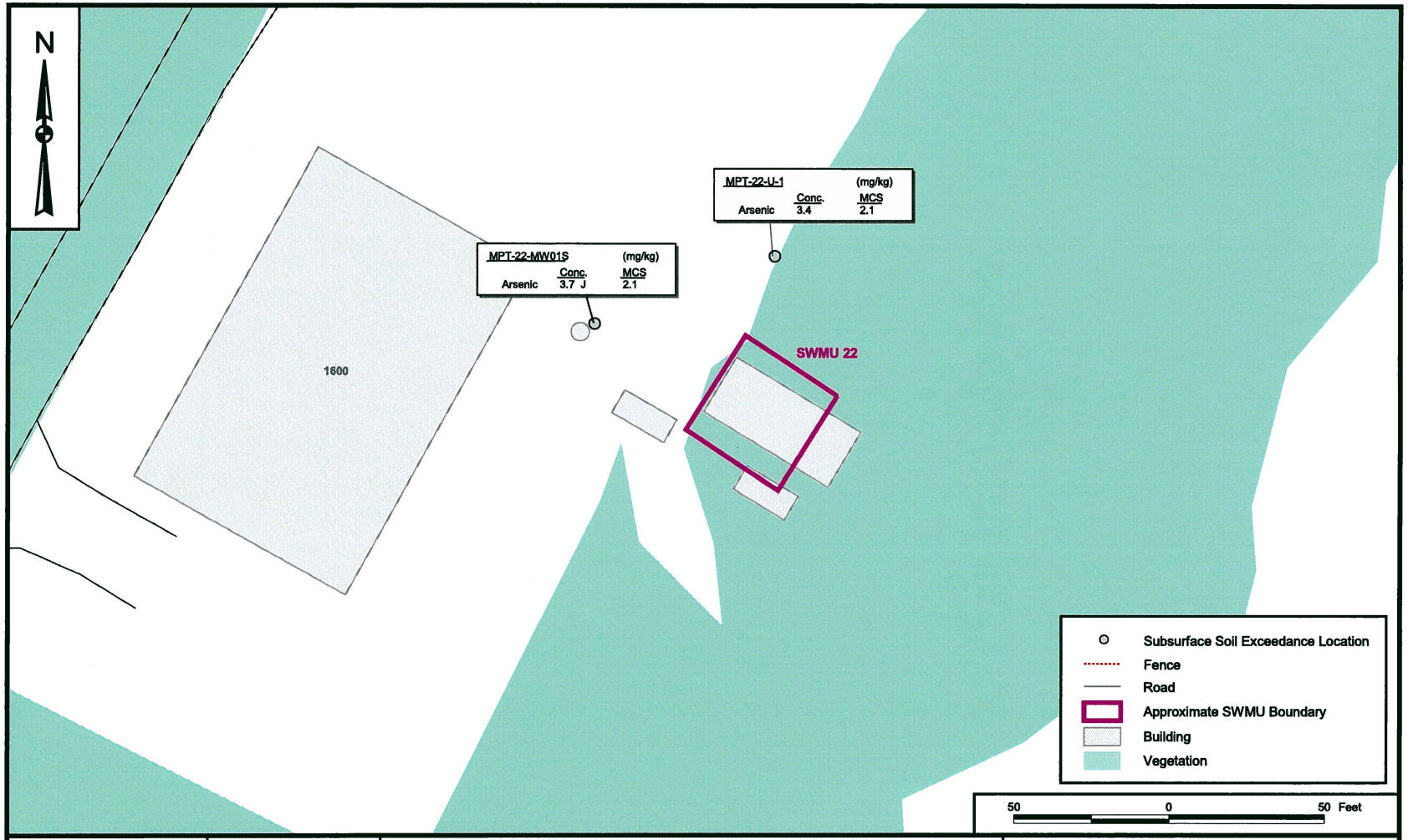


DRAWN BY	DATE
MK BOND	5/22/06
CHECKED BY	DATE
S. BALLARD	8/18/06
COST/SCHEDULE-AREA	
SCALE	AS NOTED

NAVFAC

SUBSURFACE SOIL EXCEEDANCES
SOIL SAMPLING WORK PLAN
SWMU 22 - BUILDING 1600 BLASTING AREA
NAVAL STATION MAYPORT
MAYPORT, FLORIDA

CONTRACT NUMBER	
APPROVED BY —	DATE —
APPROVED BY —	DATE —
DRAWING NO. FIGURE 7	REV 0

P:\GIS\MAYPORT_NS\SWMUS02_03_04_05_22.APR SWMU 22 SUBSURFACE SOIL SAMPLES TAG LAYOUT 8/18/06 SP

ATTACHMENT 2

FIELD FORMS

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 10, SWMU 05
PROJECT NUMBER: 112G00203
DRILLING COMPANY: N/A
DRILLING RIG: Hand Auger

BORING NUMBER: MPT0~~4~~5-SB01
DATE: 2/28/08
GEOLOGIST: D. Harrison
DRILLER: N/A

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	0-1					Dk Brn	Fine Sand	SM	Heavy organic				
	1-4					Tan	Fine Sand	SM	w/ Shell and some metal debris				
	4-5					Tan	Fine Sand	SM	chunks of Metal and glass				
						*	Hit Resistance at 5 feet bls						
													0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: Ground water table @ ~ Not reached

Drilling Area Background (ppm):

Converted to Well: Yes ____ No X Well I.D. #: N/A

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 10, SWMU 05
PROJECT NUMBER: 112G00203
DRILLING COMPANY: N/A
DRILLING RIG: Hand Auger

BORING NUMBER: MPT0~~4~~5-SB02
DATE: 2/23/08
GEOLOGIST: D. Hardison
DRILLER: N/A

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	0-1					Dk Brown	Fine Sand	Sm					
	1-3					Brown	Fine Sand	Sm	metal and cloth in borehole				
	3-4					Brown	Clayey Sand	Sc	debris, shell				
	4-8.5					Brown	Sand ~~Silt~~	Sm	debris, shell				
	8.5-10					Brown Gray	Fine Sand	Sm	saturated				0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: Ground water table @ ~ 8.5 ft. b/s

Drilling Area Background (ppm):

Converted to Well: Yes ____ No X Well I.D. #: N/A

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 10, SWMU 05
PROJECT NUMBER: 112G00203
DRILLING COMPANY: N/A
DRILLING RIG: Hand Auger

BORING NUMBER: MPT04-SB03 (5 pit)
DATE: 2/28/08
GEOLOGIST: D. Hardison
DRILLER: N/A

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	0-1					Pk Brn	Fine Sand	SM					
	1-3.5					Brn	Fine Sand	SM	metal, plastic, debris				
	3.5-6					Gry	Fine Sand	SM	saturated, debris, shell				
													0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks: Ground water table @ ~ 3.5 ft. bls
Hit refusal at 6.5 ft. bls
Organic (possibly petroleum) odor below gw table

Converted to Well: Yes ____ No X Well I.D. #: N/A

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 10, SWMU 05
PROJECT NUMBER: 112G00203
DRILLING COMPANY: N/A
DRILLING RIG: Hand Auger

BORING NUMBER: MPT04-SB04 (5 pit)
DATE: 2/28/08
GEOLOGIST: D. Hamilton
DRILLER: N/A

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
0	0-1					Dk Brown	Fine Sand	SM	w/ shell				
	1-2					Brown	Fine Sand	SM	w/ shell				
	2-3.5					Gray Brown	Fine Sand	SM	w/ shell				
	3.5-10					Gray	Fine Sand	SM	saturated, shell				
													0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks: Ground water table @ ~ 3.5 ft bls
Organic (possibly petroleum) odor below gw table

Converted to Well: Yes ____ No X Well I.D. #: N/A

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 10, SWMU 04
PROJECT NUMBER: 112G00203
DRILLING COMPANY: N/A
DRILLING RIG: Hand Auger

BORING NUMBER: MPT04-SB01
DATE: 2/29/08
GEOLOGIST: D. Hardison
DRILLER: N/A

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	0-1					Brown	SM, Fine Sand	SM					
	1-2					Tan	SM, Fine Sand	SM					
	2-4					Gray	SM, Fine Sand	SM	Shells				
	4-					Gray	SM, Fine Sand	SM	Shells Saturated				
													0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks: Ground water table @ ~ ~~4.00~~ 3.5 ft. bls

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 10, SWMU 04
PROJECT NUMBER: 112G00203
DRILLING COMPANY: N/A
DRILLING RIG: Hand Auger

BORING NUMBER: MPT04-SB02 - 6Z2908B4
DATE: 2/29/08
GEOLOGIST: D. Hendrison
DRILLER: N/A

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	0-1					Brown	SM, Fine Sand	SM					
	1-7					Tan	SM, Fine Sand	SM	Shells				
	7-8					Gray	SM, Fine Sand	SM	Shells				
	8-11					Gray Tan	SM, Fine Sand	SM	Saturated Shells				
													0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: Ground water table @ ~ 8 feet

Drilling Area Background (ppm):

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 10, SWMU 04
PROJECT NUMBER: 112G00203
DRILLING COMPANY: N/A
DRILLING RIG: Hand Auger

BORING NUMBER: MPT04-SB03 ~~0729088~~
DATE: 2/29/08
GEOLOGIST: D. Hardison
DRILLER: N/A

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	0-.5					Brown	Sm fine sand	Sm					
	.5-4					Light Tan	Sm fine sand	Sm					
	4-9					Gray	Sm fine Sand	Sm	Saturated				
	9-11					Gray	OL organic silt	OL	Saturated				
													0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: Ground water table @ ~ 4 feet

Drilling Area Background (ppm):

Converted to Well: Yes _____ No X Well I.D. #: _____

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 10, SWMU 04
PROJECT NUMBER: 112G00203
DRILLING COMPANY: N/A
DRILLING RIG: Hand Auger

BORING NUMBER: MPT04-SB04-~~022908~~
DATE: 2/29/08
GEOLOGIST: D. Hardison
DRILLER: N/A

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	0-2					Brown	Fine Sand	Sm					
	2-7					Tan	Fine Sand	Sm					
	7-11					gray	Fine Sand	Sm	Saturated				
													0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: Ground water table @ ~ 7 feet

Drilling Area Background (ppm):

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SB01-04 = 02780
Sample Location: MPT05-SB04 01
Sampled By: KW, DH
C.O.C. No.: ~~26234384~~ 26289

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2-28-08 Time: 1010 Method: Hand Auger Monitor Reading (ppm): 0	4 feet	Tan/Brown	mostly Sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

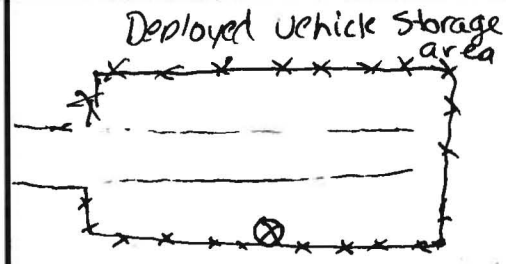
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic, Vanadium, and Barium / 6010B	1 x 4 oz. -		GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL
		1 Jar	
Aroclor - 1254 / 8082A	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

- Some old pieces of metal in the soil.
- Some shells.

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): K. Nelson

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

X Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SS02 ~~-022808~~ -01-022808
Sample Location: MPT05-SS02
Sampled By: DH, KW
C.O.C. No.: ~~26243~~ 26289

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2-28-08 Time: 1057 Method: Hand auger Monitor Reading (ppm): 0	1 foot	Dark Brown	Sand

COMPOSITE SAMPLE DATA:

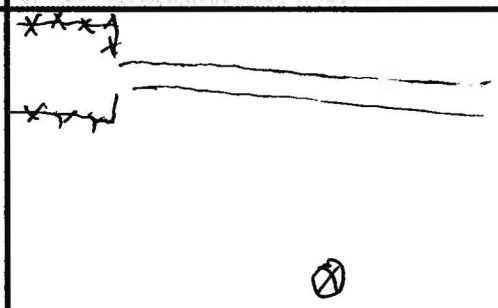
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic / 6010B	1 x 4 oz. -	15gr	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [illegible]

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SB02-04-022808
Sample Location: MPT05-SB02
Sampled By: KW, DH
C.O.C. No.: ~~26243814~~ 26289

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2-28-08 Time: 1106 Method: Hand Auger Monitor Reading (ppm): 0	4 feet	Brown	sand with some clay

COMPOSITE SAMPLE DATA:

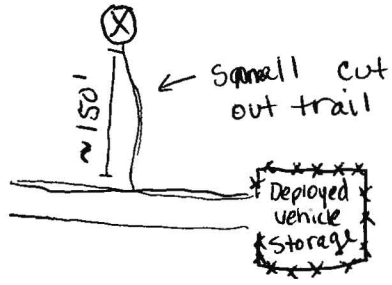
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic, Vanadium, and Barium / 6010B	1 x 4 oz. -		GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -	1 Jar	GCAL
Aroclor - 1254 / 8082A	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SB02-06-022908
Sample Location: MPT05-SB02
Sampled By: KW, DH
C.O.C. No.: ~~2024584~~ 26289

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2-28-08 Time: 1113 Method: hand auger Monitor Reading (ppm): 0	6 feet	gray brown	Sand, clay, shells

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

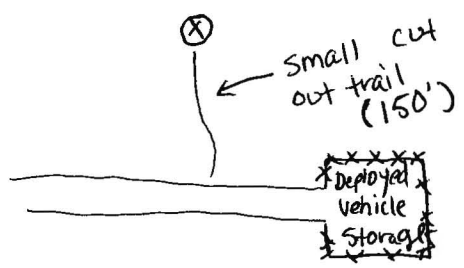
NO COMPOSITE SAMPLE COLLECTED

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic, Vanadium, and Barium / 6010B	1 x 4 oz. -		GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -	1 Jar	GCAL
Aroclor - 1254 / 8082A	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SB02-08-022808
Sample Location: MPT05-SB02
Sampled By: KW / DH
C.O.C. No.: ~~26243~~ 26289

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2-28-08 Time: 1118 Method: hand auger Monitor Reading (ppm): 0	8 Feet	Tan/Light Brown/Shells	Sand /Shells

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

NO COMPOSITE SAMPLE COLLECTED

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic, Vanadium, and Barium / 6010B	1 x 4 oz. -		GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -	1 Jar	GCAL
Aroclor - 1254 / 8082A	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [illegible]

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SB02-10-022808
Sample Location: MPT05-SB02
Sampled By: DH, KW
C.O.C. No.: ~~26243~~ 26289

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2-28-08 Time: 1127 Method: Hand Auger Monitor Reading (ppm): 0	10 feet	Brown	Sand, Shells

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

NO COMPOSITE SAMPLE COLLECTED

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic, Vanadium, and Barium / 6010B	1 x 4 oz. -		GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -	1 Jar	GCAL
Aroclor - 1254 / 8082A	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): K. Wilt

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SB03-04-022908
Sample Location: MPT05-SB03
Sampled By: DH, KW
C.O.C. No.: ~~26243~~84 26289

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 2-28-08	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1153	4	Gray	Sand, Shell
Method: hand auger			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

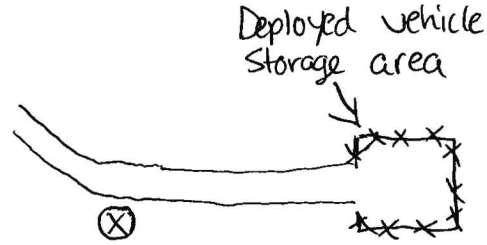
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic, Vanadium, and Barium / 6010B	1 x 4 oz. -		GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -	1 Jar	GCAL
Aroclor - 1254 / 8082A	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

Saturated, ~~petroleum~~ Organic odor

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): K. Wright

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SB03-06 - 022808
Sample Location: MPT05-SB03
Sampled By: DH, KW
C.O.C. No.: ~~26243~~ 26289

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2-28-08 Time: 1230 Method: hand auger Monitor Reading (ppm):	6 feet	Gray	Sand, Shells

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

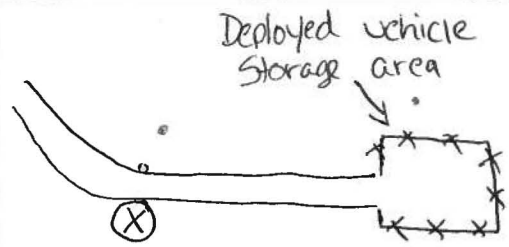
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic, Vanadium, and Barium / 6010B	1 x 4 oz. -		GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -	1 Jar	GCAL
Aroclor - 1254 / 8082A	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

Organic odor / Petroleum odor
Saturated

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Kim Wilt

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

X Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SS04-01-022808
Sample Location: MPT05-SS04
Sampled By: DH, TCW
C.O.C. No.: ~~26243~~ 26289

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2-28-08 Time: ~~144~~ 1435 Method: Hand auger Monitor Reading (ppm):	1 Foot	Brown	Sand / Shell

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

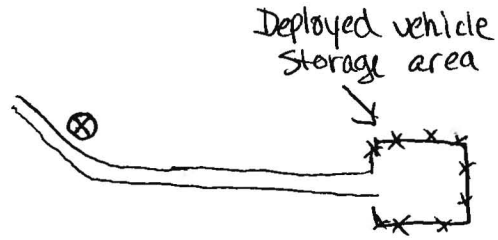
NO COMPOSITE SAMPLE COLLECTED

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic / 6010B	1 x 4 oz. -	1 Jar	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SB04-04-022808
Sample Location: MPT05-SB04
Sampled By: DH, KW
C.O.C. No.: ~~262438A~~ 26289

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2-28-08 Time: 1445 Method: hand auger Monitor Reading (ppm):	4 Feet	Gray	Sand, Shells

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

NO COMPOSITE SAMPLE COLLECTED

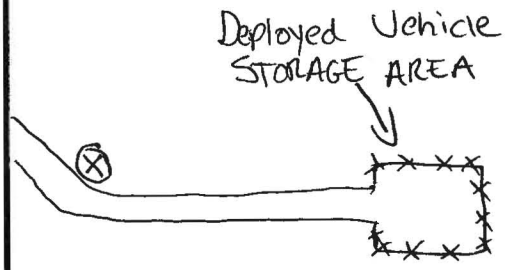
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic, Vanadium, and Barium / 6010B	1 x 4 oz. -		GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -	1 Jar	GCAL
Aroclor - 1254 / 8082A	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

Saturated
Slight petroleum odor?
Organic odor

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): K. Wright

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SB04-06-022808
Sample Location: MPT05-SB04
Sampled By: KW, DH
C.O.C. No.: ~~26234~~ 26289

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2-28-08 Time: 1501 Method: HAND A Monitor Reading (ppm):	6 Feet	Gray	Sand, Shells

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

NO COMPOSITE SAMPLE COLLECTED

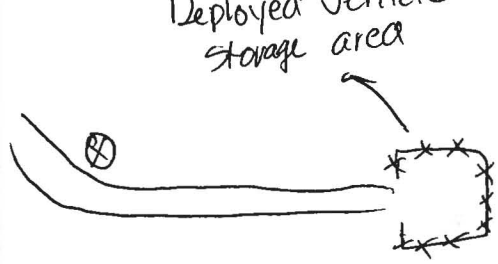
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic, Vanadium, and Barium / 6010B	1 x 4 oz. -		GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -	1 Jar	GCAL
Aroclor - 1254 / 8082A	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

Saturated
petroleum or organic odor

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SB04-08-022808
Sample Location: MPT05-SB04
Sampled By: DH, KW
C.O.C. No.: ~~26243~~ 26289

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2-28-08 Time: 1525 Method: Hand Auger Monitor Reading (ppm):	8 feet	Gray	Sand, Shells

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:	NO COMPOSITE SAMPLE COLLECTED			
Method:				
Monitor Readings (Range in ppm):				

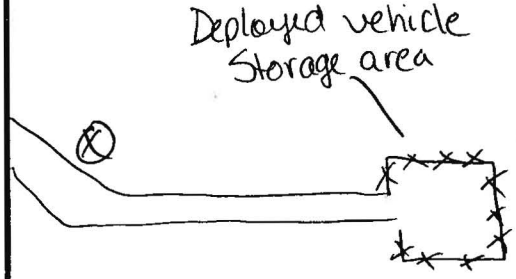
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic, Vanadium, and Barium / 6010B	1 x 4 oz. -		GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -	1 JAR	GCAL
Aroclor - 1254 / 8082A	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

Saturated
petroleum or organic odor

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SB04-10-022808
Sample Location: MPT05-SB04
Sampled By: DH, KW
C.O.C. No.: ~~26243-PH~~ 26289

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2-28-08 Time: 15 31 Method: Hand Auger Monitor Reading (ppm):	10'	Gray	Sand, Shells

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

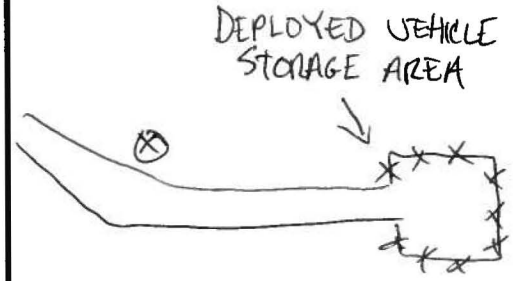
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic, Vanadium, and Barium / 6010B	1 x 4 oz. -		GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -	1 JAR	GCAL
Aroclor - 1254 / 8082A	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

petroleum or organic odor

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 04
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT04-SB02-05-022908
Sample Location: MPT04-SB02
Sampled By: KW, DH
C.O.C. No.: 26290

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2/29/08 Time: 1112 Method: Hand Auger Monitor Reading (ppm):	5 feet	Tan	Fine Sand

COMPOSITE SAMPLE DATA:

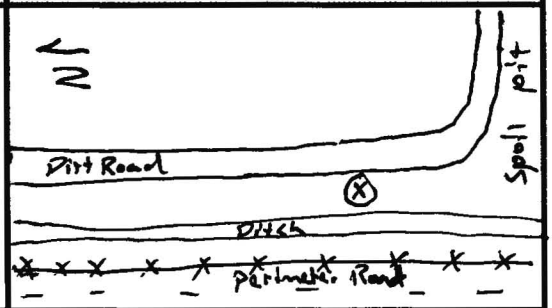
	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: Method: Monitor Readings (Range in ppm):	NO COMPOSITE SAMPLE COLLECTED			

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic and Barium / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 04
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT04-SB02-07-022908
Sample Location: MPT04-SB02
Sampled By: KW, DH
C.O.C. No.: 26290

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2/29/08 Time: 1121 Method: Hand Auger Monitor Reading (ppm):	7 feet	Tan	Fine Sand

COMPOSITE SAMPLE DATA:

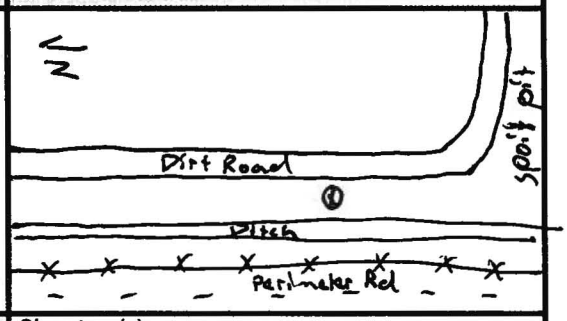
	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: Method: Monitor Readings (Range in ppm):	NO COMPOSITE SAMPLE COLLECTED			

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic and Barium / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 04
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT04-SB02-09-022908
Sample Location: MPT04-SB02
Sampled By: KW, DH
C.O.C. No.: 26290

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2/29/08 Time: 1128 Method: Hand Auger Monitor Reading (ppm):	9 feet	Fine Sand	Gray, Saturated

COMPOSITE SAMPLE DATA:

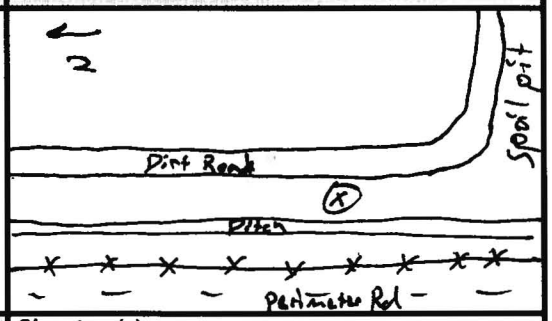
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic and Barium / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 04
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT04-SB02-11-022908
Sample Location: MPT04-SB02
Sampled By: KW, DH
C.O.C. No.: 26290

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2/29/08 Time: 1135 Method: Hand Auger Monitor Reading (ppm):	11 feet	gray	fine sand, saturated

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

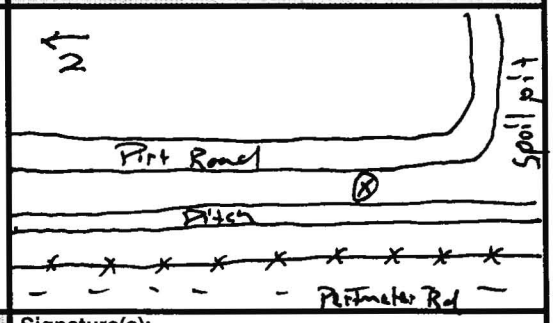
NO COMPOSITE SAMPLE COLLECTED

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic and Barium / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [illegible]

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 04
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT04-SB03-05-022908
Sample Location: MPT04-SB03
Sampled By: KW, DH
C.O.C. No.: 26290

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2/29/08 Time: 1309 Method: Hand Auger Monitor Reading (ppm):	5 feet	Grey	Fine Sand, Saturated

COMPOSITE SAMPLE DATA:

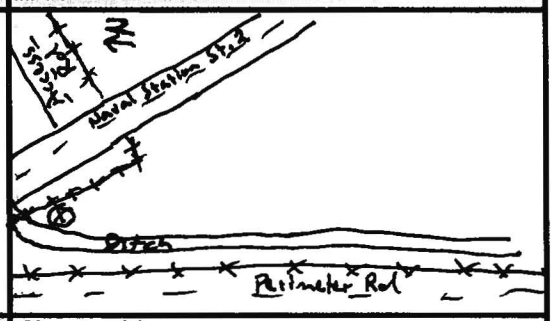
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic and Barium / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [illegible]

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 04
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT04-SB03-07-022908
Sample Location: MPT04-SB03
Sampled By: KW, DH
C.O.C. No.: 26290

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2/29/08 Time: 1314 Method: Hand Auger Monitor Reading (ppm):	7 feet	Grey	Fine Sand, Saturated

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

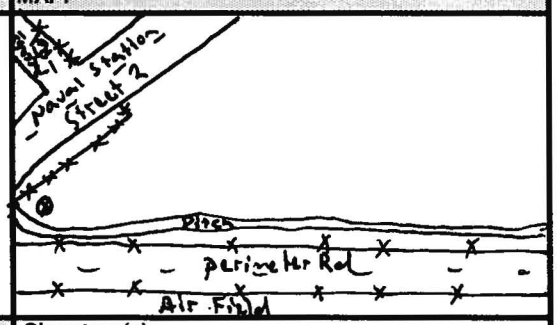
NO COMPOSITE SAMPLE COLLECTED

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic and Barium / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 04
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT04-SB03-09-022908
Sample Location: MPT04-SB03
Sampled By: KW, DH
C.O.C. No.: 26290

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2/29/08 Time: 1339 Method: Hand Auger Monitor Reading (ppm):	9 feet	grey	Fine Sand, Saturated

COMPOSITE SAMPLE DATA:

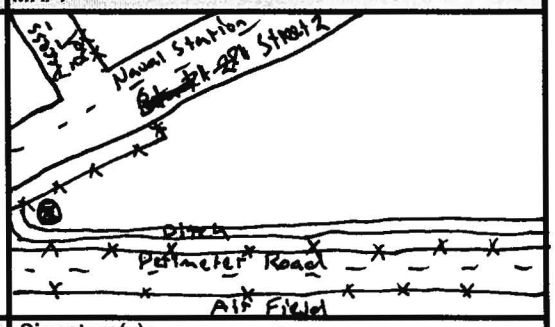
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic and Barium / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 04
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT04-SB03-11-022908
Sample Location: MPT04-SB03
Sampled By: KW, DH
C.O.C. No.: 26290

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2-29-06 Time: 1405 Method: Hand Auger Monitor Reading (ppm):	11 feet	Brown	Organic silt. saturated strong organic odor

COMPOSITE SAMPLE DATA:

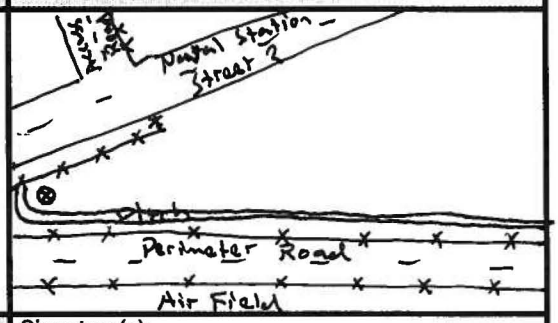
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic and Barium / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 04
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT04-SB04-05-022908
Sample Location: MPT04-SB04
Sampled By: KW, DH
C.O.C. No.: 26290

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 02/29/08 Time: 1438 Method: Hand Auger Monitor Reading (ppm):	5 feet	Tan	Fine Sand, Some Shell

COMPOSITE SAMPLE DATA:

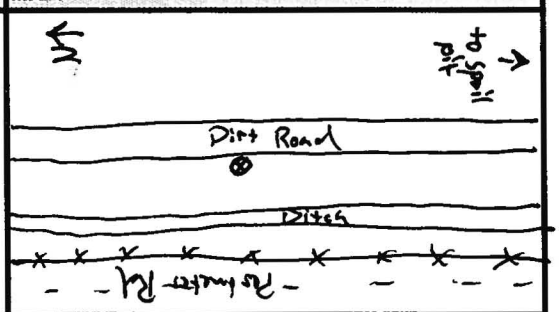
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic and Barium / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 04
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT04-SB04-07-022908
Sample Location: MPT04-SB04
Sampled By: KW, DH
C.O.C. No.: 26290

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 2/29/08 Time: 1442 Method: Hand Auger Monitor Reading (ppm):	7 feet	Tan and Gray	Fine Sand

COMPOSITE SAMPLE DATA:

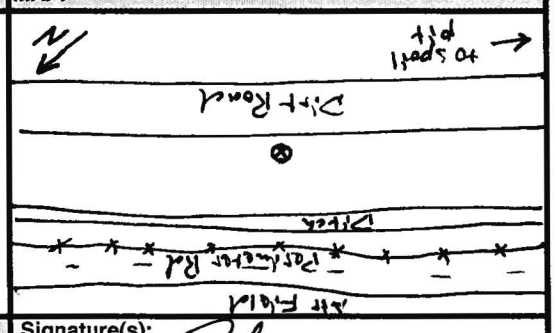
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic and Barium / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 04
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT04-SB04-09-022908
Sample Location: MPT04-SB04
Sampled By: KW, DH
C.O.C. No.: 26290

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 02/29/08 Time: 1453 Method: Hand Auger Monitor Reading (ppm):	9 feet	grey	Fine sand, saturated

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

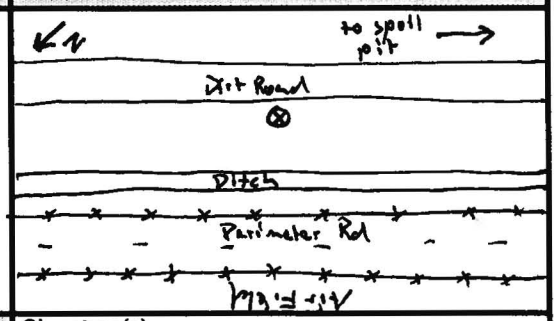
NO COMPOSITE SAMPLE COLLECTED

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic and Barium / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 04
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT04-SB04-11-022908
Sample Location: MPT04-SB04
Sampled By: KW, DN
C.O.C. No.: 26290

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 02/29/08 Time: 1508 Method: HAND AUGER Monitor Reading (ppm):	11 feet	Grey	Fine Sand, saturated

COMPOSITE SAMPLE DATA:

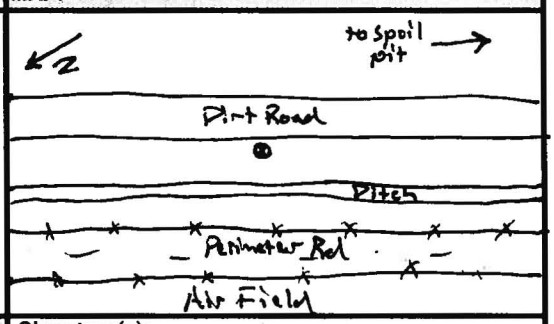
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic and Barium / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

X Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SS05-01-030308
Sample Location: MPT05-~~SS~~ ~~06-5~~ 3805
Sampled By: KW, DA
C.O.C. No.: 26291

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 3-3-08 Time: 1140 Method: Hand Auger Monitor Reading (ppm):	1 ft	Grayish Brown	Sand

COMPOSITE SAMPLE DATA:

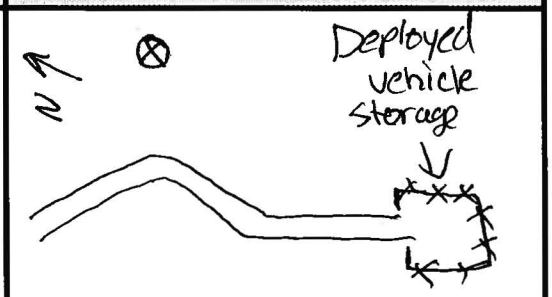
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic / 6010B	1 x 4 oz. -	✓	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -	✓	GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

X Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SS06-01-030308
Sample Location: MPT05-SB06
Sampled By: KW
C.O.C. No.: 26291

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 3-3-08 Time: 1157 Method: Hand Auger Monitor Reading (ppm):	1 Ft.	Brown	Sand

COMPOSITE SAMPLE DATA:

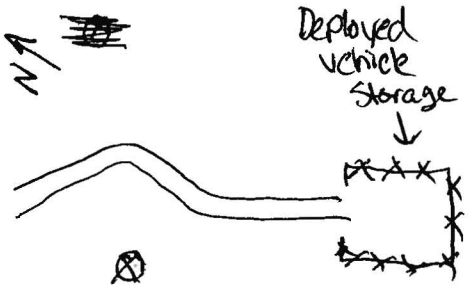
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

X Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SS07-08-03308
Sample Location: MPT05-SS07-11 SB07
Sampled By: KW
C.O.C. No.: 26291

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 3-3-08	1 ft.	Brown	Sand
Time: 1214			
Method: HAND AUGER			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

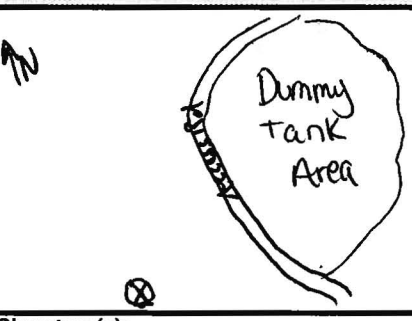
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic / 6010B	1 x 4 oz. -	JAK	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

X Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SS08-01-030308
Sample Location: MPT05-~~SS05DH~~ SB08
Sampled By: KW
C.O.C. No.: 26291

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 3-3-08 Time: 1226 Method: Hand Augur Monitor Reading (ppm):	1 ft.	Gray	Sand

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: Method: Monitor Readings (Range in ppm):	NO COMPOSITE SAMPLE COLLECTED			

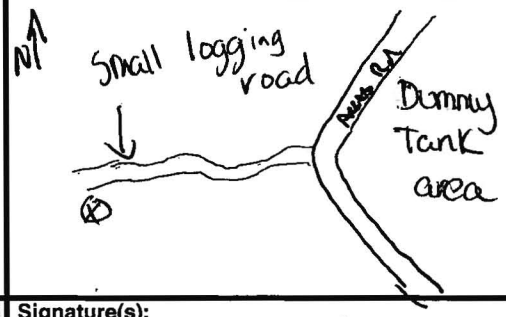
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

water table at 1 foot
- saturated

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [signature]

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

X Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SS09-01-030808
Sample Location: MPT05-SS09DH SB09
Sampled By: KW
C.O.C. No.: 26291

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 3-3-08 Time: 1243 Method: Hand Auger Monitor Reading (ppm):	1 ft.	tan	Sand

COMPOSITE SAMPLE DATA:

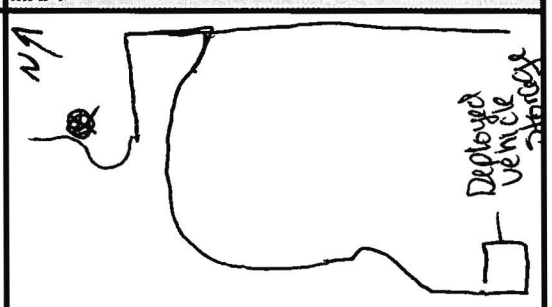
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

X Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SS / 0-01-030308
Sample Location: MPT05-~~SS10~~ SB10
Sampled By: KW
C.O.C. No.: 26291

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 3-3-06 Time: 1259 Method: Hand Auger Monitor Reading (ppm):	1. foot	Brown/Tan	Sand, Rocks

COMPOSITE SAMPLE DATA:

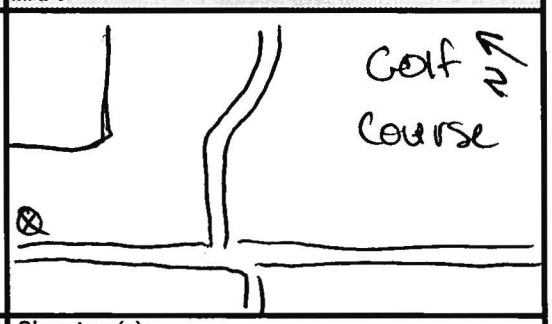
Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

X Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SS11-01-032308
Sample Location: MPT05-~~SS-HPH~~ SB11
Sampled By: KW
C.O.C. No.: 26291

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 3-3-08 Time: 1311 Method: Hand Auger Monitor Reading (ppm):	1 foot	Brown	Sand

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): BM JAL

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 05
Project No.: 112G00203

X Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT05-SS12-01-030308
Sample Location: MPT05-~~SS12~~ SB12
Sampled By: KW
C.O.C. No.: 26291

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 3-3-08 Time: 1328 Method: hand auger Monitor Reading (ppm):	1 foot	Gray	Sand

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

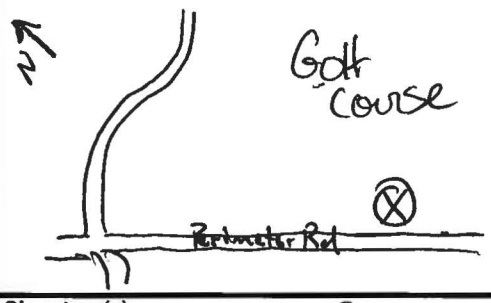
NO COMPOSITE SAMPLE COLLECTED

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic / 6010B	1 x 4 oz. -	1 JAR	GCAL
Benzo(a)Pyrene Equivalents / 8270C	1 x 4 oz. -		GCAL

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 26289 | **PAGE** 1 **OF** 2

PROJECT NO: 112G00203	**FACILITY:** NAVSTA Mayport	**PROJECT MANAGER** Shina Ballard	**PHONE NUMBER** 904-636-6125	**LABORATORY NAME AND CONTACT:** GCAL / Liz Martin
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER** Donald Hardison	**PHONE NUMBER** 904-636-6125	**ADDRESS** 7979 GSRI Avenue
		CARRIER/WAYBILL NUMBER 8427 1834 3489		**CITY, STATE** Baton Rouge, LA 70820

STANDARD TAT [X]
RUSH TAT [ ]
[ ] 24 hr. [ ] 48 hr. [ ] 72 hr. [ ] 7 day [ ] 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G G
PRESERVATIVE USED: None None None

DATE YEAR 2008	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	6010B (As, V, Ba)	8270C (BAP Equ.)	8082A (Aroclor-1254)						COMMENTS
2/28	1010	MPT05-SB01-04-022808		3.5	4	So	G	2	X	X	X						Cool to 4°C
	1057	MPT05-SS02-01-022808		0.5	1			1	X	X							
	1106	MPT05-SB02-04-022808		3.5	4			2	X	X	X						
	1113	MPT05-SB02-06-022808		5.5	6			2	X	X	X						
	1118	MPT05-SB02-08-022808		7.5	8			2	X	X	X						
	1127	MPT05-SB02-10-022808		9.5	10			2	X	X	X						
	1153	MPT05-SB03-04-022808		3.5	4			2	X	X	X						
	1230	MPT05-SB03-06-022808		5.5	6			2	X	X	X						
	1435	MPT05-SS04-01-022808		0.5	1			1	X	X							
	1445	MPT05-SB04-04-022808		3.5	4			2	X	X	X						
	1501	MPT05-SB04-06-022808		5.5	6			2	X	X	X						
	1525	MPT05-SB04-08-022808		7.5	8			2	X	X	X						
	1531	MPT05-SB04-10-022808		9.5	10			2	X	X	X						

1. RELINQUISHED BY	DATE 3/3/08	TIME 1030	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 26290

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00203	NAVSTA Mayport	Shina Ballard	904-636-6125	GCAL / Liz Martin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		Donald Hardison	904-636-6125	7979 GSRI Avenue
		CARRIER/WAYBILL NUMBER		CITY, STATE
		8427 1834 3489		Baton Rouge, LA 70820

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: None None

DATE YEAR 2008	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	6010B (As, Ba)	8270C (BAP Equ.)							COMMENTS
2/28	1112	MPT04-SB02-05-022908		4.5	5	So	G	1	X	X							Cool to 4°C
	1121	MPT04-SB02-07-022908		6.5	7			1	X	X							
	1128	MPT04-SB02-09-022908		8.5	9			1	X	X							
	1135	MPT04-SB02-11-022908		10.5	11			1	X	X							
	1309	MPT04-SB03-05-022908		4.5	5			1	X	X							
	1314	MPT04-SB03-07-022908		6.5	7			1	X	X							
	1339	MPT04-SB03-09-022908		8.5	9			1	X	X							
	1405	MPT04-SB03-11-022908		10.5	11			1	X	X							
	1438	MPT04-SB04-05-022908		4.5	5			1	X	X							
	1442	MPT04-SB04-07-022908		6.5	7			1	X	X							
	1453	MPT04-SB04-09-022908		8.5	9			1	X	X							
	1508	MPT04-SB04-11-022908		10.5	11			1	X	X							

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	3/3/08	1030	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 26291 | **PAGE** 1 **OF** 1

PROJECT NO: 112G00203	**FACILITY:** NAVSTA Mayport	**PROJECT MANAGER** Shina Ballard	**PHONE NUMBER** 904-636-6125	**LABORATORY NAME AND CONTACT:** GCAL / Liz Martin
SAMPLERS (SIGNATURE) [signature]		**FIELD OPERATIONS LEADER** Donald Hardison	**PHONE NUMBER** 904-636-6125	**ADDRESS** 7979 GSRI Avenue
		CARRIER/WAYBILL NUMBER 8427 1834 3478		**CITY, STATE** Baton Rouge, LA 70820

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: None None

DATE YEAR 2008	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	6010B (As)	8270C (BAP Equ.)							COMMENTS
3/3	1140	MPT05-SS05-01-030308		0.5	1	SO	G	1	X	X							Cool to 4°C
	1157	MPT05-SS06-01-030308		0.5	1			1	X	X							
	1214	MPT05-SS07-01-030308		0.5	1			1	X	X							
	1226	MPT05-SS08-01-030308		0.5	1			1	X	X							
	1243	MPT05-SS09-01-030308		0.5	1			1	X	X							
	1259	MPT05-SS10-01-030308		0.5	1			1	X	X							
	1311	MPT05-SS11-01-030308		0.5	1			1	X	X							
	1328	MPT05-SS12-01-030308		0.5	1			1	X	X							

1. RELINQUISHED BY [signature]	DATE 3/3/08	TIME 1500	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

12/17/07

Personnel: Donald Hardison (DH)

- Obtained 4 drums from FMM Drum Services, Inc. for work at SWMUs 2, 3, 4, 5 and 22

1300 - DH at commercial gate at NASTA Mayport

1315 - DH off loads 4 empty drums in bay at drum storage area.

- DH notes 6 drums (full) that are hidden and reports drums to David Sleffen
- Drums are from SWMUs 44 and 45 and have ~~been~~ not been included in outgoing drum shipment.

DH

12/18/07 112G00203 SWMH 2 and 22 Soil Sampling CTO 10 US NAVY

Personnel: Donald Hendison (DH)
Truck: F250 SD
Phone: 5429
GPS: Trimble GeoXT hand held
PPE: Level D
Weather: 40s
Objective: Collect soil samples via Hand Auger at SWMH's 2 and 22

0700 - DH at office preparing for days Activities
0930 - DH leaves office for NAVSTA Mayport
- Contacts Mayport Weapons for access to restricted area tomorrow
1020 - DH at site setting up for soil sampling at SWMH 22. Will collect soil samples via hand auger at 4 ft. bgs for Arsenic analysis (See Table for details).

Boring #	Sample ID	Time	Analysis	Lab	GPS Coordinates
MPT22-SB01	MPT22-SB01-04-121807	1055	Arsenic	GCAL	Collected on Trimble
MPT22-SB02	MPT22-SB02-04-121807	1110	↓	↓	GeoXT and sent
MPT22-SB03	MPT22-SB03-04-121807	1130			data file
MPT22-SB04	MPT22-SB04-04-121807	1145			for post processing
MPT22-SB05	MPT22-SB05-05-121807	1205			↓
Rinsate Blank	MPT22-RB01-121807	1230			

1315 - DH at SWMH 2 Collecting soil samples to 7ft. bgs
1430 - Ground water Table at ~4 ft. bgs. DH unable to get below ~5.5 ft. bgs to Collect soil sample.
- will not be able to reach 7ft. bgs with hand auger.
1510 - DH takes soil cutting collected in 5-gallon buckets to drum storage area to put into drum

1545 - Soil cuttings stored in Drum # CTO10-001
- Drum is ~ 1/4 full from soil cuttings.
1610 - DH leaves NASTA Mayport for office

DH

RM

12/19/07 112600203 SWMU 2 and 4 Soil Sampling CTO 10 US NAVY

Personnel: Donald Hardison (DH)
PPE: Level D
Objective: Collect Soil samples via Hand Auger at SWMUS 2 and 4

0730 - DH at office preparing for days activities
0900 - DH leaves for NAUSTA Mayport from office
0945 - DH at Building 190 to obtain access to Restricted Mayport weapons Area
1015 - DH collecting GPS coordinates for CTO 33
1100 - DH at the backside of building 1563 in Restricted weapons area attempting to collect soil samples for SWMU 2
1135 - Ground water table at ~2 feet bgs. Unable to reach 7 feet bgs to collect soil samples
1205 - DH moving locations at SWMU 4. Locations were initially placed in the wrong locations.
1255 - DH unable to reach desired sampling depths at SWMU 4. Ground water table is between 3 and 4 feet bgs. at locations checked. Will not be able to collect soil samples at this SWMU via Hand Auger.
1345 - DH at drum storage area collecting empty drums to bring back to office.
1420 - DH leaves NAUSTA Mayport for office.
- Stops to buy small cooler to ship samples to lab.

DH

- Post processed GPS coordinates for SWMU 22
- Collected with handheld Trimble GeoXT GPS unit on 12/18/07
- Post processed by Jon Wright.

Borehole	Easting (ft.)	Northing (ft.)
MPT22-SB01	522784.24	2200807.86
MPT22-SB02	522803.17	2200836.85
MPT22-SB03	522822.39	2200866.63
MPT22-SB04	522850.04	2200849.98
MPT22-SB05	522826.94	2200811.68

RH

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 10, SWMU 22
BORING NUMBER: MPT22-SB01
PROJECT NUMBER: 112G00203
DATE: 12/18/07
DRILLING COMPANY: N/A
GEOLOGIST: D. Hardison
DRILLING RIG: Hand Auger
DRILLER: N/A

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	0-2					Dk Brown	Fine Sand	SM	organic				
	2-4					Tan	Fine Sand w/shell						
													0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 22
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT22-SB01-04-121807
Sample Location: MPT22-SB01
Sampled By: DH
C.O.C. No.: 26242

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 12/18/07 Time: 1055 Method: **Hand Auger** Monitor Reading (ppm):	4 feet	Tan	Fine sand w/ shell

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

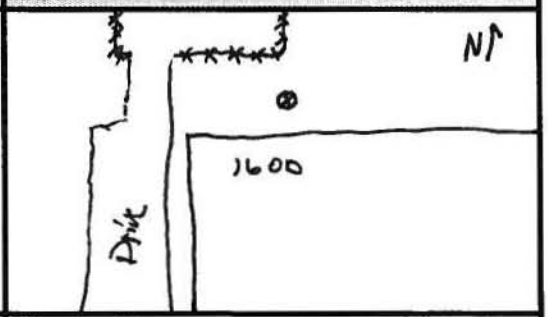
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic / 6010B	1 x 4 oz. -	DH	GCAL

OBSERVATIONS / NOTES:

GPS Coordinates collected on handheld GPS

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): DH

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 10, SWMU 22
BORING NUMBER: MPT22-SB02
PROJECT NUMBER: 112G00203
DATE: 12/18/07
DRILLING COMPANY: N/A
GEOLOGIST: D. Hardison
DRILLING RIG: Hand Auger
DRILLER: N/A

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	0-2.5					DK Brown	Fine Sand						
	2.5-3.5					Tan	Fine Sand w/shell						
	3.5-4.0					Grey	Fine Sand w/shell						
													0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 22
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT22-SB02-04-121807
Sample Location: MPT22-SB02
Sampled By: DH
C.O.C. No.: 26242

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 12/18/07 Time: 1110 Method: **Hand Auger** Monitor Reading (ppm):	4 feet	Gray	Fine Sand w/ shell

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

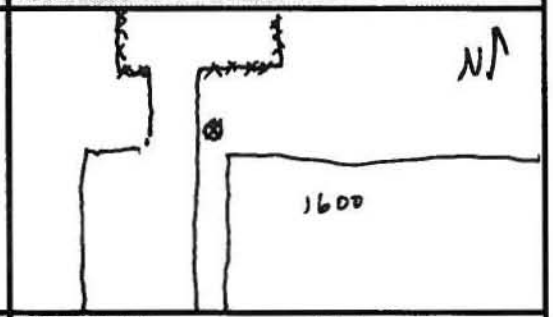
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic / 6010B	1 x 4 oz. -	SM	GCAL

OBSERVATIONS / NOTES:

GPS Coordinates collected on handheld GPS

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): SM

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 10, SWMU 22
BORING NUMBER: MPT22-SB03
PROJECT NUMBER: 112G00203
DATE: 12/18/07
DRILLING COMPANY: N/A
GEOLOGIST: D. Hardison
DRILLING RIG: Hand Auger
DRILLER: N/A

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	0-0.5					DK Brown	Fine Sand	SM					
	0.5-1					Gray	Lime Rock Fill						
	1-2					DK Brown	Fine Sand	SM					
	2-4					Tan	Fine Sand w/shell	SM					
													0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 22
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT22-SB03-04-121807
Sample Location: MPT22-SB03
Sampled By: DH
C.O.C. No.: 26242

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 12/18/07 Time: ~~1130~~ 1130 Method: Hand Auger Monitor Reading (ppm):	4 feet	Tan	Fine Sand w/ shell

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

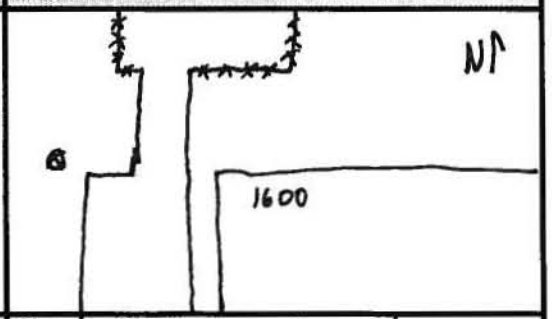
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic / 6010B	1 x 4 oz. -	SH	GCAL

OBSERVATIONS / NOTES:

GPS coordinates collected on handheld GPS

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): SM

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 10, SWMU 22
BORING NUMBER: MPT22-SB04
PROJECT NUMBER: 112G00203
DATE: 12/18/07
DRILLING COMPANY: N/A
GEOLOGIST: D. Hardison
DRILLING RIG: Hand Auger
DRILLER: N/A

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	0-0.5					Dk Brown	Fine Sand	SM					
	0.5-2					Brown	Fine Sand	SM					
	2-3					Tan	Fine Sand w/shell	SM					
	3-4					Grey	Fine Sand w/shell	SM					
													0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: Water Table @ ~ 3.5 ft. bgs

Drilling Area Background (ppm):

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 22
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT22-SB04-04-121807
Sample Location: MPT22-SB04
Sampled By: DH
C.O.C. No.: 26242

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 12/18/07 Time: 1145 Method: **Hand Auger** Monitor Reading (ppm):	4 feet	Grey	Fine Sand w/ shell, wet

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

NO COMPOSITE SAMPLE COLLECTED

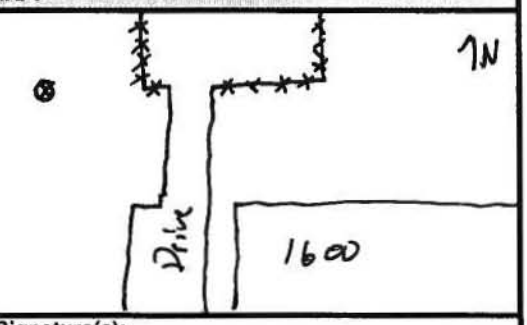
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic / 6010B	1 x 4 oz. -	DH	GCAL

OBSERVATIONS / NOTES:

GPS coordinate collected on handheld GPS unit

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): DH [illegible]

Tetra Tech NUS, Inc.

BORING LOG

PROJECT NAME: CTO 10, SWMU 22
PROJECT NUMBER: 112G00203
DRILLING COMPANY: N/A
DRILLING RIG: Hand Auger

BORING NUMBER: MPT22-SB05
DATE: 12/18/07
GEOLOGIST: D. Hardison
DRILLER: N/A

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
	0-0.5					Dk. Brown	Fine Sand	SM					
	0.5-3					Tan	Fine Sand w/ shell	SM					
	3-3.5					Dk Gray	Clay	CL					
	3.5-4					Gray	Fine Sand w/ Shell	SM					
													0

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ____ No X Well I.D. #: ____

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: CTO 10, SWMU 22
Project No.: 112G00203

[] Surface Soil (SS)
X Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT22-SB05-04- 121807
Sample Location: MPT22-SB05
Sampled By: DH
C.O.C. No.: 26242

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 12/18/07 Time: 1205 Method: **Hand Auger** Monitor Reading (ppm):	4 feet	Grey	Fine Sand w/ shell, wet

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:	NO COMPOSITE SAMPLE COLLECTED			
Monitor Readings (Range in ppm):				

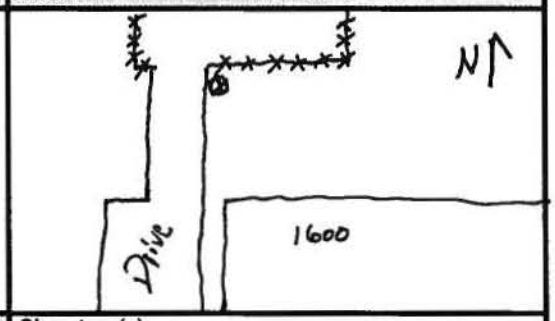
SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
Arsenic / 6010B	1 x 4 oz. -	DH	GCAL

OBSERVATIONS / NOTES:

GPS Coordinates collected on handheld GPS unit

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): DH ZR-1

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 26242 | **PAGE** 1 **OF** 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00203	NAVSTA Mayport	Shina Ballard	904-636-6125	GCAL / Liz Martin
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
JM Hi-1		Donald Hardison	904-636-6125	7979 GSRI Avenue
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
		Fed Ex / 7983 3532 1214		Baton Rouge, La 70820

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G P
PRESERVATIVE USED: — HNO3

DATE YEAR 2007	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	Arsenic / 6010B	Arsenic / 6010B							COMMENTS
12/18	1055	MPT22-SB01-04-121807				SO	G	1	X								Cool to 4°C
	1110	MPT22-SB02-04-121807				SO	G	1	X								
	1130	MPT22-SB03-04-121807				SO	G	1	X								
	1145	MPT22-SB04-04-121807				SO	G	1	X								
	1205	MPT22-SB05-04-121807				SO	G	1	X								
	1230	MPT22-RB01-121807				QC	G	1		X							

1. RELINQUISHED BY JM Hi-1	DATE 12/19/07	TIME 1400	1. RECEIVED BY	DATE / TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE / TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE / TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

ATTACHMENT 3

LABORATORY DATA

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**S. BALLARD**	**DATE:**	**JANUARY 31, 2008**
FROM:	**TERRI L. SOLOMON**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – ARSENIC**
CTO – 0010 NAVSTA MAYPORT
SAMPLE DELIVERY GROUP (SDG) – 207122033

SAMPLES: 5/Soils/

MPT22-SB01-04-121807
MPT22-SB02-04-121807
MPT22-SB03-04-121807
MPT22-SB04-04-121807
MPT22-SB05-04-121807

1/Aqueous/

MPT22-RB01-121807

Overview

The sample set for CTO 0010, NAVSTA Mayport, SDG 207122033, consists of five (5) soil environmental samples and one rinsate blank (MPT22-RB01-121807). No field duplicates were included within this SDG.

All samples were analyzed for arsenic. The samples were collected by Tetra Tech NUS on December 18, 2007 and analyzed by Gulf Coast Analytical Laboratories, Inc. under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. Arsenic analyses were conducted using SW-846 method 6010B.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Verification Results
• Laboratory Blank Analyses
* • ICP Interference Check Sample Results
* • Matrix Spike Results
* • Laboratory Control Sample Results
* • ICP Serial Dilution Results
* • Sample Quantitation
* • Detection Limits

* - All quality control criteria were met for this parameter.

Notes

The following analyte was detected in the laboratory method/preparation blanks at the following maximum concentration:

Analyte	Maximum Concentration	Action Level
arsenic[1]	0.11 mg/L	0.55 mg/kg

[1] Maximum concentration present in a preparation blank.

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot, percent solids and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. No validation actions were warranted as a result of blank contamination. Field blanks are not qualified for blank contamination.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", October 2004 and the DOD document entitled "Quality System Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines."

Tetra Tech NUS
Terri L. Solomon
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS-GFAA MSA's r < 0.995 / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O - Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DOT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00203

SDG: 207122033 MEDIA: WATER DATA FRACTION: M

nsample	MPT22-RB01-121807
samp_date	12/18/2007
lab_id	20712203306
qc_type	NM
units	MG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.0064		

PROJ_NO: 00203

SDG: 207122033 MEDIA: SOIL DATA FRACTION: M

nsample	MPT22-SB01-04-121807	nsample	MPT22-SB02-04-121807	nsample	MPT22-SB03-04-121807
samp_date	12/18/2007	samp_date	12/18/2007	samp_date	12/18/2007
lab_id	20712203301	lab_id	20712203302	lab_id	20712203303
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	85.9	Pct_Solids	94.1	Pct_Solids	81.3
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.13		

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.59		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.76		

PROJ_NO: 00203

SDG: 207122033 MEDIA: SOIL DATA FRACTION: M

nsample	MPT22-SB04-04-121807	nsample	MPT22-SB05-04-121807
samp_date	12/18/2007	samp_date	12/18/2007
lab_id	20712203304	lab_id	20712203305
qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG
Pct_Solids	79.4	Pct_Solids	82.5
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.42		

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.35		

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL

Sample ID: MPT22-RB01-121807

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 207122033

Level: (low / med) % Solids:

Lab Sample ID: 20712203306

Date Received: 12/20/07 Time: 1011

Date Collected: 12/18/07 Time: 1230

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.0064	mg/L	I	0.0030	0.010	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT22-SB01-04-121807
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 207122033
Level: (low / med)
% Solids: 85.89
Lab Sample ID: 20712203301
Date Received: 12/20/07
Time: 1011
Date Collected: 12/18/07
Time: 1055

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	1.13	mg/kg	I	0.12	1.86	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT22-SB02-04-121807
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 207122033
Level: (low / med)
% Solids: 94.06
Lab Sample ID: 20712203302
Date Received: 12/20/07
Time: 1011
Date Collected: 12/18/07
Time: 1110

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	2.59	mg/kg	I	0.22	3.38	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT22-SB03-04-121807
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 207122033
Level: (low / med)
% Solids: 81.24
Lab Sample ID: 20712203303
Date Received: 12/20/07
Time: 1011
Date Collected: 12/18/07
Time: 1130

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.76	mg/kg	I	0.13	1.97	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT22-SB04-04-121807
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 207122033
Level: (low / med)
% Solids: 79.37
Lab Sample ID: 20712203304
Date Received: 12/20/07
Time: 1011
Date Collected: 12/18/07
Time: 1145

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	1.42	mg/kg	I	0.13	2.00	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT22-SB05-04-121807
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 207122033
Level: (low / med)
% Solids: 82.47
Lab Sample ID: 20712203305
Date Received: 12/20/07
Time: 1011
Date Collected: 12/18/07
Time: 1205

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	1.35	mg/kg	I	0.13	1.94	SW-846 6010B	P

FORM I - IN

APPENDIX C
SUPPORT DOCUMENTATION

CASE NARRATIVE

Client: Tetra Tech NUS, Inc. **Report:** 207122033

Contract Task Order No.: 0010

Site: NAVSTA Mayport

Project Manager: Shina Ballard

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

Additional Flags:

I – The reported value is between the laboratory method detection limit and the practical quantitation limit.

METALS

In the SW-846 6010B analysis, a chemical or physical interference necessitated a dilution for sample 20712203302 (MPT22-SB02-04-121807) . This is reflected in the elevated reporting limits.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

CURTIS EKKER
DATA VALIDATION MANAGER
GCAL REPORT 207122033

THIS REPORT CONTAINS 145 PAGES.

Tetra Tech/4602/2071220 33/12-2807

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 26242 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00203	NAVSTA Mayport	Shina Ballard	904-636-6125	GCAL / Liz Martin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
[signature]		Donald Hutchison	904-636-6125	7979 GSRI Avenue
		CARRIER/WAYBILL NUMBER		CITY, STATE
		Fed Ex / 7983 3532 1214		Baton Rouge, La 70820

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G P
PRESERVATIVE USED: — HNO3

DATE YEAR 2007	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: Arsenic / 6010B	Arsenic / 6010B							COMMENTS
12/18	1055	MPT22-SB01-04-121807				SO	G	1	X							1	Cool to 4°C
	1110	MPT22-SB02-04-121807				SO	G	1	X							2	
	1130	MPT22-SB03-04-121807				SO	G	1	X							3	
	1145	MPT22-SB04-04-121807				SO	G	1	X							4	
	1205	MPT22-SB05-04-121807				SO	G	1	X							5	
	1230	MPT22-RB01-121807				QC	G	1		X						C	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	12/19/07	1400	1. RECEIVED BY		
2. RELINQUISHED BY Fedex	12-20-07	1011	2. RECEIVED BY [signature]	12-20-07	1011
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

144

HOLDTIME

SDG 207122033

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	MPT22-SB05-04-121807	20712203305	NM	12/18/2007	12/20/2007	12/21/2007	2	1	3
M	MG/KG	MPT22-SB04-04-121807	20712203304	NM	12/18/2007	12/20/2007	12/21/2007	2	1	3
M	MG/KG	MPT22-SB03-04-121807	20712203303	NM	12/18/2007	12/20/2007	12/21/2007	2	1	3
M	MG/KG	MPT22-SB02-04-121807	20712203302	NM	12/18/2007	12/20/2007	12/21/2007	2	1	3
M	MG/KG	MPT22-SB01-04-121807	20712203301	NM	12/18/2007	12/20/2007	12/21/2007	2	1	3

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

SOW No.:

EPA Sample No.	*Lab Sample ID*
MPT22-SB01-04-121807	20712203301
MPT22-SB02-04-121807	20712203302
MPT22-SB03-04-121807	20712203303
MPT22-SB04-04-121807	20712203304
MPT22-SB05-04-121807	20712203305
MPT22-RB01-121807	20712203306

Were ICP interelement corrections applied ?	Yes / No	YES
Were ICP background corrections applied ?	Yes / No	YES
If yes-were raw data generated before application of background corrections ?	Yes / No	NO

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

Calibration Source: 173-6-4 CPI/EXAXOL Instrument ID: ICP5 ICAL ID: 1

Date Analyzed: 12/21/07 Time: 1056

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	9.75	97	mg/L	SW-846 6010B	P
Antimony	1.00	0.930	93	mg/L	SW-846 6010B	P
Arsenic	1.00	0.880	88	mg/L	SW-846 6010B	P
Barium	1.00	1.00	100	mg/L	SW-846 6010B	P
Beryllium	1.00	1.00	100	mg/L	SW-846 6010B	P
Boron	5.00	4.91	98	mg/L	SW-846 6010B	P
Cadmium	1.00	0.970	97	mg/L	SW-846 6010B	P
Calcium	10.0	10.3	103	mg/L	SW-846 6010B	P
Chromium	1.00	0.980	98	mg/L	SW-846 6010B	P
Cobalt	1.00	0.950	95	mg/L	SW-846 6010B	P
Copper	1.00	0.950	95	mg/L	SW-846 6010B	P
Iron	10.0	9.63	96	mg/L	SW-846 6010B	P
Lead	1.00	0.980	98	mg/L	SW-846 6010B	P
Lithium	1.00	0.970	97	mg/L	SW-846 6010B	P
Magnesium	10.0	9.98	100	mg/L	SW-846 6010B	P
Manganese	1.00	0.970	97	mg/L	SW-846 6010B	P
Molybdenum	1.00	0.960	96	mg/L	SW-846 6010B	P
Nickel	1.00	0.960	96	mg/L	SW-846 6010B	P
Potassium	10.0	9.59	96	mg/L	SW-846 6010B	P
Selenium	1.00	0.990	99	mg/L	SW-846 6010B	P
Silver	1.00	1.03	103	mg/L	SW-846 6010B	P
Sodium	10.0	8.86	89	mg/L	SW-846 6010B	P
Strontium	1.00	0.980	98	mg/L	SW-846 6010B	P
Thallium	1.00	1.01	101	mg/L	SW-846 6010B	P
Tin	1.00	1.01	101	mg/L	SW-846 6010B	P
Titanium	1.00	0.960	96	mg/L	SW-846 6010B	P
Vanadium	1.00	0.970	97	mg/L	SW-846 6010B	P
Zinc	1.00	0.980	98	mg/L	SW-846 6010B	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

FORM II- IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

Calibration Source: 173-7-2 EXAXOL Instrument ID: ICP5 ICAL ID: 1

Date Analyzed: 12/21/07 Time: 1105

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Antimony	1.00	0.890	89	mg/L	SW-846 6010B	P
Arsenic	1.00	0.970	97	mg/L	SW-846 6010B	P
Silicon	10.0	9.57	96	mg/L	SW-846 6010B	P
Sodium	10.0	8.96	90	mg/L	SW-846 6010B	P
Zirconium	1.00	1.02	102	mg/L	SW-846 6010B	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

FORM II- IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

Calibration Source: 173-6-2 INORGANIC VENTURES Instrument ID: ICP5 ICAL ID: 1

Date Analyzed: 12/21/07 Time: 1119

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	0.200	0.170	86	mg/L	SW-846 6010B	P
Antimony	0.0600	0.0570	96	mg/L	SW-846 6010B	P
Arsenic	0.0100	0.0110	108	mg/L	SW-846 6010B	P
Barium	0.0100	0.00980	98	mg/L	SW-846 6010B	P
Beryllium	0.00500	0.00480	96	mg/L	SW-846 6010B	P
Boron	0.500	0.490	97	mg/L	SW-846 6010B	P
Cadmium	0.00500	0.00520	104	mg/L	SW-846 6010B	P
Calcium	0.100	0.130	129	mg/L	SW-846 6010B	P
Chromium	0.0100	0.0110	106	mg/L	SW-846 6010B	P
Cobalt	0.0100	0.00890	89	mg/L	SW-846 6010B	P
Copper	0.0100	0.0150	152	mg/L	SW-846 6010B	P
Iron	0.100	0.110	113	mg/L	SW-846 6010B	P
Lead	0.0150	0.0160	109	mg/L	SW-846 6010B	P
Lithium	0.0500	0.0550	109	mg/L	SW-846 6010B	P
Magnesium	0.100	0.0900	90	mg/L	SW-846 6010B	P
Manganese	0.0150	0.0150	103	mg/L	SW-846 6010B	P
Molybdenum	0.0500	0.0480	96	mg/L	SW-846 6010B	P
Nickel	0.0400	0.0410	103	mg/L	SW-846 6010B	P
Potassium	0.500	0.470	95	mg/L	SW-846 6010B	P
Selenium	0.0400	0.0360	91	mg/L	SW-846 6010B	P
Silver	0.0100	0.00950	95	mg/L	SW-846 6010B	P
Sodium	1.00	-0.480	-48	mg/L	SW-846 6010B	P
Strontium	0.0500	0.0490	99	mg/L	SW-846 6010B	P
Thallium	0.0100	0.00760	76	mg/L	SW-846 6010B	P
Tin	0.100	0.0980	98	mg/L	SW-846 6010B	P
Titanium	0.100	0.0980	98	mg/L	SW-846 6010B	P
Vanadium	0.0200	0.0170	85	mg/L	SW-846 6010B	P
Zinc	0.0200	0.0220	112	mg/L	SW-846 6010B	P

FORM II- IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

Calibration Source: 173-7-1 INORGANIC VENTURES Instrument ID: ICP5 ICAL ID: 1

Date Analyzed: 12/21/07 Time: 1209

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.08	102	mg/L	SW-846 6010B	P
Antimony	0.500	0.500	100	mg/L	SW-846 6010B	P
Arsenic	0.500	0.510	101	mg/L	SW-846 6010B	P
Barium	0.500	0.500	99	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	99	mg/L	SW-846 6010B	P
Boron	2.50	2.45	98	mg/L	SW-846 6010B	P
Cadmium	0.500	0.500	99	mg/L	SW-846 6010B	P
Calcium	5.00	4.99	100	mg/L	SW-846 6010B	P
Chromium	0.500	0.500	100	mg/L	SW-846 6010B	P
Cobalt	0.500	0.500	100	mg/L	SW-846 6010B	P
Copper	0.500	0.490	98	mg/L	SW-846 6010B	P
Iron	5.00	5.01	100	mg/L	SW-846 6010B	P
Lead	0.500	0.510	102	mg/L	SW-846 6010B	P
Lithium	0.500	0.500	100	mg/L	SW-846 6010B	P
Magnesium	5.00	5.05	101	mg/L	SW-846 6010B	P
Manganese	0.500	0.500	101	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	99	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	100	mg/L	SW-846 6010B	P
Potassium	10.0	9.56	96	mg/L	SW-846 6010B	P
Selenium	0.500	0.500	100	mg/L	SW-846 6010B	P
Silicon	5.00	5.03	101	mg/L	SW-846 6010B	P
Silver	0.500	0.500	100	mg/L	SW-846 6010B	P
Sodium	20.0	17.7	89	mg/L	SW-846 6010B	P
Strontium	0.500	0.500	99	mg/L	SW-846 6010B	P
Thallium	0.500	0.510	102	mg/L	SW-846 6010B	P
Tin	0.500	0.500	99	mg/L	SW-846 6010B	P
Titanium	0.500	0.490	99	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	98	mg/L	SW-846 6010B	P
Zinc	0.500	0.500	99	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	100	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II- IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

Calibration Source: 173-7-1 INORGANIC VENTURES Instrument ID: ICP5 ICAL ID: 1

Date Analyzed: 12/21/07 Time: 1250

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.94	99	mg/L	SW-846 6010B	P
Antimony	0.500	0.500	100	mg/L	SW-846 6010B	P
Arsenic	0.500	0.510	102	mg/L	SW-846 6010B	P
Barium	0.500	0.500	100	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	99	mg/L	SW-846 6010B	P
Boron	2.50	2.46	98	mg/L	SW-846 6010B	P
Cadmium	0.500	0.500	101	mg/L	SW-846 6010B	P
Calcium	5.00	5.05	101	mg/L	SW-846 6010B	P
Chromium	0.500	0.500	101	mg/L	SW-846 6010B	P
Cobalt	0.500	0.500	100	mg/L	SW-846 6010B	P
Copper	0.500	0.490	98	mg/L	SW-846 6010B	P
Iron	5.00	4.93	99	mg/L	SW-846 6010B	P
Lead	0.500	0.510	101	mg/L	SW-846 6010B	P
Lithium	0.500	0.500	99	mg/L	SW-846 6010B	P
Magnesium	5.00	5.00	100	mg/L	SW-846 6010B	P
Manganese	0.500	0.510	101	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	99	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	101	mg/L	SW-846 6010B	P
Potassium	10.0	9.55	95	mg/L	SW-846 6010B	P
Selenium	0.500	0.490	97	mg/L	SW-846 6010B	P
Silicon	5.00	4.98	100	mg/L	SW-846 6010B	P
Silver	0.500	0.500	101	mg/L	SW-846 6010B	P
Sodium	20.0	18.4	92	mg/L	SW-846 6010B	P
Strontium	0.500	0.510	101	mg/L	SW-846 6010B	P
Thallium	0.500	0.500	100	mg/L	SW-846 6010B	P
Tin	0.500	0.500	99	mg/L	SW-846 6010B	P
Titanium	0.500	0.490	98	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	99	mg/L	SW-846 6010B	P
Zinc	0.500	0.500	100	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	100	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II- IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

Calibration Source: 173-7-1 INORGANIC VENTURES Instrument ID: ICP5 ICAL ID: 1

Date Analyzed: 12/21/07 Time: 1431

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.95	99	mg/L	SW-846 6010B	P
Antimony	0.500	0.490	98	mg/L	SW-846 6010B	P
Arsenic	0.500	0.500	99	mg/L	SW-846 6010B	P
Barium	0.500	0.490	98	mg/L	SW-846 6010B	P
Beryllium	0.500	0.490	98	mg/L	SW-846 6010B	P
Boron	2.50	2.41	96	mg/L	SW-846 6010B	P
Cadmium	0.500	0.500	99	mg/L	SW-846 6010B	P
Calcium	5.00	5.03	101	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	99	mg/L	SW-846 6010B	P
Cobalt	0.500	0.490	98	mg/L	SW-846 6010B	P
Copper	0.500	0.480	97	mg/L	SW-846 6010B	P
Iron	5.00	4.96	99	mg/L	SW-846 6010B	P
Lead	0.500	0.500	100	mg/L	SW-846 6010B	P
Lithium	0.500	0.480	97	mg/L	SW-846 6010B	P
Magnesium	5.00	4.94	99	mg/L	SW-846 6010B	P
Manganese	0.500	0.500	100	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	98	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	99	mg/L	SW-846 6010B	P
Potassium	10.0	9.30	93	mg/L	SW-846 6010B	P
Selenium	0.500	0.480	96	mg/L	SW-846 6010B	P
Silicon	5.00	4.90	98	mg/L	SW-846 6010B	P
Silver	0.500	0.490	99	mg/L	SW-846 6010B	P
Sodium	20.0	17.9	89	mg/L	SW-846 6010B	P
Strontium	0.500	0.500	101	mg/L	SW-846 6010B	P
Thallium	0.500	0.490	98	mg/L	SW-846 6010B	P
Tin	0.500	0.490	98	mg/L	SW-846 6010B	P
Titanium	0.500	0.490	98	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	97	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	99	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	98	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II- IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

Calibration Source: 173-7-1 INORGANIC VENTURES Instrument ID: ICP5 ICAL ID: 1

Date Analyzed: 12/21/07 Time: 1557

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.96	99	mg/L	SW-846 6010B	P
Antimony	0.500	0.490	98	mg/L	SW-846 6010B	P
Arsenic	0.500	0.500	100	mg/L	SW-846 6010B	P
Barium	0.500	0.490	98	mg/L	SW-846 6010B	P
Beryllium	0.500	0.490	99	mg/L	SW-846 6010B	P
Boron	2.50	2.40	96	mg/L	SW-846 6010B	P
Cadmium	0.500	0.500	99	mg/L	SW-846 6010B	P
Calcium	5.00	5.07	101	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	99	mg/L	SW-846 6010B	P
Cobalt	0.500	0.490	98	mg/L	SW-846 6010B	P
Copper	0.500	0.480	96	mg/L	SW-846 6010B	P
Iron	5.00	4.97	99	mg/L	SW-846 6010B	P
Lead	0.500	0.510	101	mg/L	SW-846 6010B	P
Lithium	0.500	0.510	101	mg/L	SW-846 6010B	P
Magnesium	5.00	5.09	102	mg/L	SW-846 6010B	P
Manganese	0.500	0.500	100	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	99	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	99	mg/L	SW-846 6010B	P
Potassium	10.0	9.62	96	mg/L	SW-846 6010B	P
Selenium	0.500	0.490	98	mg/L	SW-846 6010B	P
Silicon	5.00	4.94	99	mg/L	SW-846 6010B	P
Silver	0.500	0.490	98	mg/L	SW-846 6010B	P
Sodium	20.0	17.1	86	mg/L	SW-846 6010B	P
Strontium	0.500	0.500	99	mg/L	SW-846 6010B	P
Thallium	0.500	0.500	99	mg/L	SW-846 6010B	P
Tin	0.500	0.490	99	mg/L	SW-846 6010B	P
Titanium	0.500	0.490	98	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	97	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	99	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	98	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II- IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

Calibration Source: 173-6-4 CPI/EXAXOL Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 12/22/07 Time: 1316

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	9.86	99	mg/L	SW-846 6010B	P
Antimony	1.00	1.01	101	mg/L	SW-846 6010B	P
Arsenic	1.00	1.04	104	mg/L	SW-846 6010B	P
Barium	1.00	1.05	105	mg/L	SW-846 6010B	P
Beryllium	1.00	1.06	106	mg/L	SW-846 6010B	P
Boron	5.00	5.21	104	mg/L	SW-846 6010B	P
Cadmium	1.00	1.03	103	mg/L	SW-846 6010B	P
Calcium	10.0	10.3	103	mg/L	SW-846 6010B	P
Chromium	1.00	1.03	103	mg/L	SW-846 6010B	P
Cobalt	1.00	1.01	101	mg/L	SW-846 6010B	P
Copper	1.00	0.990	99	mg/L	SW-846 6010B	P
Iron	10.0	9.88	99	mg/L	SW-846 6010B	P
Lead	1.00	1.04	104	mg/L	SW-846 6010B	P
Lithium	1.00	1.01	101	mg/L	SW-846 6010B	P
Magnesium	10.0	10.4	104	mg/L	SW-846 6010B	P
Manganese	1.00	1.02	102	mg/L	SW-846 6010B	P
Molybdenum	1.00	1.00	100	mg/L	SW-846 6010B	P
Nickel	1.00	1.03	103	mg/L	SW-846 6010B	P
Potassium	10.0	9.76	98	mg/L	SW-846 6010B	P
Selenium	1.00	1.05	105	mg/L	SW-846 6010B	P
Silver	1.00	1.07	107	mg/L	SW-846 6010B	P
Sodium	10.0	9.73	97	mg/L	SW-846 6010B	P
Strontium	1.00	0.980	98	mg/L	SW-846 6010B	P
Thallium	1.00	1.05	105	mg/L	SW-846 6010B	P
Tin	1.00	1.08	108	mg/L	SW-846 6010B	P
Titanium	1.00	1.01	101	mg/L	SW-846 6010B	P
Vanadium	1.00	1.02	102	mg/L	SW-846 6010B	P
Zinc	1.00	1.03	103	mg/L	SW-846 6010B	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

FORM II- IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

Calibration Source: 173-6-2 INORGANIC VENTURES Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 12/22/07 Time: 1337

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	0.200	0.210	103	mg/L	SW-846 6010B	P
Antimony	0.0600	0.0560	94	mg/L	SW-846 6010B	P
Arsenic	0.0100	0.00900	90	mg/L	SW-846 6010B	P
Barium	0.0100	0.00960	96	mg/L	SW-846 6010B	P
Beryllium	0.00500	0.00480	96	mg/L	SW-846 6010B	P
Boron	0.500	0.510	101	mg/L	SW-846 6010B	P
Cadmium	0.00500	0.00500	100	mg/L	SW-846 6010B	P
Calcium	0.100	0.110	114	mg/L	SW-846 6010B	P
Chromium	0.0100	0.00910	91	mg/L	SW-846 6010B	P
Cobalt	0.0100	0.00980	98	mg/L	SW-846 6010B	P
Copper	0.0100	0.0140	138	mg/L	SW-846 6010B	P
Iron	0.100	0.110	108	mg/L	SW-846 6010B	P
Lead	0.0150	0.0140	93	mg/L	SW-846 6010B	P
Lithium	0.0500	0.0570	113	mg/L	SW-846 6010B	P
Magnesium	0.100	0.110	113	mg/L	SW-846 6010B	P
Manganese	0.0150	0.0150	102	mg/L	SW-846 6010B	P
Molybdenum	0.0500	0.0480	96	mg/L	SW-846 6010B	P
Nickel	0.0400	0.0380	96	mg/L	SW-846 6010B	P
Potassium	0.500	0.520	105	mg/L	SW-846 6010B	P
Selenium	0.0400	0.0310	77	mg/L	SW-846 6010B	P
Silver	0.0100	0.0100	103	mg/L	SW-846 6010B	P
Sodium	1.00	0.870	87	mg/L	SW-846 6010B	P
Strontium	0.0500	0.0490	98	mg/L	SW-846 6010B	P
Thallium	0.0100	0.00280	28	mg/L	SW-846 6010B	P
Tin	0.100	0.100	102	mg/L	SW-846 6010B	P
Titanium	0.100	0.0980	98	mg/L	SW-846 6010B	P
Vanadium	0.0200	0.0180	91	mg/L	SW-846 6010B	P
Zinc	0.0200	0.0190	95	mg/L	SW-846 6010B	P

FORM II- IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

Calibration Source: 173-7-1 INORGANIC VENTURES Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 12/22/07 Time: 1423

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.04	101	mg/L	SW-846 6010B	P
Antimony	0.500	0.510	102	mg/L	SW-846 6010B	P
Arsenic	0.500	0.520	103	mg/L	SW-846 6010B	P
Barium	0.500	0.510	102	mg/L	SW-846 6010B	P
Beryllium	0.500	0.520	103	mg/L	SW-846 6010B	P
Boron	2.50	2.57	103	mg/L	SW-846 6010B	P
Cadmium	0.500	0.520	105	mg/L	SW-846 6010B	P
Calcium	5.00	5.11	102	mg/L	SW-846 6010B	P
Chromium	0.500	0.510	103	mg/L	SW-846 6010B	P
Cobalt	0.500	0.500	101	mg/L	SW-846 6010B	P
Copper	0.500	0.510	102	mg/L	SW-846 6010B	P
Iron	5.00	5.06	101	mg/L	SW-846 6010B	P
Lead	0.500	0.510	102	mg/L	SW-846 6010B	P
Lithium	0.500	0.520	104	mg/L	SW-846 6010B	P
Magnesium	5.00	5.16	103	mg/L	SW-846 6010B	P
Manganese	0.500	0.510	103	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	100	mg/L	SW-846 6010B	P
Nickel	0.500	0.520	104	mg/L	SW-846 6010B	P
Potassium	10.0	9.75	98	mg/L	SW-846 6010B	P
Selenium	0.500	0.500	100	mg/L	SW-846 6010B	P
Silicon	5.00	5.01	100	mg/L	SW-846 6010B	P
Silver	0.500	0.510	103	mg/L	SW-846 6010B	P
Sodium	20.0	19.7	98	mg/L	SW-846 6010B	P
Strontium	0.500	0.500	101	mg/L	SW-846 6010B	P
Thallium	0.500	0.520	103	mg/L	SW-846 6010B	P
Tin	0.500	0.500	101	mg/L	SW-846 6010B	P
Titanium	0.500	0.510	102	mg/L	SW-846 6010B	P
Vanadium	0.500	0.510	103	mg/L	SW-846 6010B	P
Zinc	0.500	0.520	103	mg/L	SW-846 6010B	P
Zirconium	0.500	0.510	102	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II- IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

Calibration Source: 173-7-1 INORGANIC VENTURES Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 12/22/07 Time: 1902

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.21	104	mg/L	SW-846 6010B	P
Antimony	0.500	0.510	102	mg/L	SW-846 6010B	P
Arsenic	0.500	0.510	103	mg/L	SW-846 6010B	P
Barium	0.500	0.510	101	mg/L	SW-846 6010B	P
Beryllium	0.500	0.510	103	mg/L	SW-846 6010B	P
Boron	2.50	2.52	101	mg/L	SW-846 6010B	P
Cadmium	0.500	0.500	101	mg/L	SW-846 6010B	P
Calcium	5.00	5.36	107	mg/L	SW-846 6010B	P
Chromium	0.500	0.510	102	mg/L	SW-846 6010B	P
Cobalt	0.500	0.510	102	mg/L	SW-846 6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 6010B	P
Iron	5.00	5.44	109	mg/L	SW-846 6010B	P
Lead	0.500	0.510	102	mg/L	SW-846 6010B	P
Lithium	0.500	0.630	126	mg/L	SW-846 6010B	P
Magnesium	5.00	5.46	109	mg/L	SW-846 6010B	P
Manganese	0.500	0.510	103	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	99	mg/L	SW-846 6010B	P
Nickel	0.500	0.510	102	mg/L	SW-846 6010B	P
Potassium	10.0	10.7	107	mg/L	SW-846 6010B	P
Selenium	0.500	0.500	99	mg/L	SW-846 6010B	P
Silicon	5.00	5.39	108	mg/L	SW-846 6010B	P
Silver	0.500	0.510	102	mg/L	SW-846 6010B	P
Sodium	20.0	19.5	98	mg/L	SW-846 6010B	P
Strontium	0.500	0.470	94	mg/L	SW-846 6010B	P
Thallium	0.500	0.510	102	mg/L	SW-846 6010B	P
Tin	0.500	0.500	100	mg/L	SW-846 6010B	P
Titanium	0.500	0.510	102	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	100	mg/L	SW-846 6010B	P
Zinc	0.500	0.510	102	mg/L	SW-846 6010B	P
Zirconium	0.500	0.510	102	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II- IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

Calibration Source: 173-7-1 INORGANIC VENTURES Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 12/22/07 Time: 2031

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Zirconium	0.500	0.510	101	mg/L	SW-846 6010B	P
Aluminum	5.00	5.05	101	mg/L	SW-846 6010B	P
Antimony	0.500	0.520	104	mg/L	SW-846 6010B	P
Arsenic	0.500	0.520	105	mg/L	SW-846 6010B	P
Barium	0.500	0.510	102	mg/L	SW-846 6010B	P
Beryllium	0.500	0.510	103	mg/L	SW-846 6010B	P
Boron	2.50	2.55	102	mg/L	SW-846 6010B	P
Cadmium	0.500	0.510	102	mg/L	SW-846 6010B	P
Calcium	5.00	5.10	102	mg/L	SW-846 6010B	P
Chromium	0.500	0.510	102	mg/L	SW-846 6010B	P
Cobalt	0.500	0.510	102	mg/L	SW-846 6010B	P
Copper	0.500	0.510	102	mg/L	SW-846 6010B	P
Iron	5.00	5.05	101	mg/L	SW-846 6010B	P
Lead	0.500	0.510	101	mg/L	SW-846 6010B	P
Lithium	0.500	0.510	103	mg/L	SW-846 6010B	P
Magnesium	5.00	5.14	103	mg/L	SW-846 6010B	P
Manganese	0.500	0.510	102	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	100	mg/L	SW-846 6010B	P
Nickel	0.500	0.520	103	mg/L	SW-846 6010B	P
Potassium	10.0	9.81	98	mg/L	SW-846 6010B	P
Selenium	0.500	0.510	102	mg/L	SW-846 6010B	P
Silicon	5.00	5.07	101	mg/L	SW-846 6010B	P
Silver	0.500	0.510	102	mg/L	SW-846 6010B	P
Sodium	20.0	19.3	97	mg/L	SW-846 6010B	P
Strontium	0.500	0.490	97	mg/L	SW-846 6010B	P
Thallium	0.500	0.520	104	mg/L	SW-846 6010B	P
Tin	0.500	0.510	102	mg/L	SW-846 6010B	P
Titanium	0.500	0.510	102	mg/L	SW-846 6010B	P
Vanadium	0.500	0.510	101	mg/L	SW-846 6010B	P
Zinc	0.500	0.510	102	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II- IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 207122033

Lab Sample ID: ICB

ICAL ID: 1

Lab Sample DESC: ICB FOR HBN 363944 [ICP/4729]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 12/21/07 Time: 1112

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 207122033

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 363944 [ICP/4729]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 12/21/07 Time: 1217

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 207122033

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 363944 [ICP/4729]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 12/21/07 Time: 1258

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 207122033

Lab Sample ID: 558261

ICAL ID: 1

Lab Sample DESC: MB558261

Preparation Blank Matrix: (soil / water) Soil

Instrument ID: ICP5

Date Analyzed: 12/21/07 Time: 1305

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.11	i	mg/kg	0.10	1.60	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 207122033
Lab Sample ID: CCB
ICAL ID: 1
Lab Sample DESC: CCB FOR HBN 363944 [ICP/4729]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 12/21/07 Time: 1438

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 207122033

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 363944 [ICP/4729]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 12/21/07 Time: 1616

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.0078	I	mg/kg	0.0030	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 207122033

Lab Sample ID: ICB

ICAL ID: 2

Lab Sample DESC: ICB FOR HBN 363975 [ICP/4731]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 12/22/07 Time: 1330

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/L	0.0030	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 207122033

Lab Sample ID: CCB

ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 363975 [ICP/4731]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 12/22/07 Time: 1431

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/L	0.0030	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 207122033

Lab Sample ID: CCB

ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 363975 [ICP/4731]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 12/22/07 Time: 1912

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/L	0.0030	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 207122033

Lab Sample ID: 558316

ICAL ID: 2

Lab Sample DESC: MB558316

Preparation Blank Matrix: (soil / water) Water

Instrument ID: ICP5

Date Analyzed: 12/22/07 Time: 1919

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.0030	U	mg/L	0.0030	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 207122033
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 363975 [ICP/4731]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 12/22/07 Time: 2038

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/L	0.0030	0.010	SW-846 6010B	P

FORM III - IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

ICP ID Number: ICP5 ICS Source: 170-101-3 SPEX~173-6-7 SPEX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	199	201	100			
Antimony	0	1.00		0.94	94			
Arsenic	0	1.00		0.99	99			
Barium	0	0.50		0.50	100			
Beryllium	0	0.50		0.52	104			
Boron	0	1.00		0.93	93			
Cadmium	0	1.00		0.96	96			
Calcium	200	200	193	194	97			
Chromium	0	0.50		0.49	98			
Cobalt	0	0.50		0.44	88			
Copper	0	0.50		0.50	100			
Iron	80.0	80.0	76.0	76.4	96			
Lead	0	1.00		0.97	97			
Magnesium	200	200	185	186	93			
Manganese	0	0.50		0.49	98			
Molybdenum	0	1.00		0.98	98			
Nickel	0	1.00		0.92	92			
Selenium	0	1.00		1.01	101			
Silver	0	1.00		1.04	104			
Thallium	0	1.00		1.03	103			
Vanadium	0	0.50		0.46	92			
Zinc	0	1.00		0.97	97			

FORM IV - IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

ICP ID Number: ICP5 ICS Source: 173-5-6 SPEX~173-6-7 SPEX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	196	198	99			
Antimony	0	1.00		1.03	103			
Arsenic	0	1.00		1.02	102			
Barium	0	0.50		0.50	100			
Beryllium	0	0.50		0.54	108			
Boron	0	1.00		0.97	97			
Cadmium	0	1.00		0.98	98			
Calcium	200	200	195	195	98			
Chromium	0	0.50		0.49	98			
Cobalt	0	0.50		0.45	90			
Copper	0	0.50		0.50	100			
Iron	80.0	80.0	76.0	77.2	96			
Lead	0	1.00		0.99	99			
Magnesium	200	200	186	189	94			
Manganese	0	0.50		0.49	98			
Molybdenum	0	1.00		0.99	99			
Nickel	0	1.00		0.93	93			
Selenium	0	1.00		1.04	104			
Silver	0	1.00		1.04	104			
Thallium	0	1.00		1.04	104			
Vanadium	0	0.50		0.47	94			
Zinc	0	1.00		1.00	100			

FORM IV - IN

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

Matrix Spike - EPA Sample No: MPT22-SB01-04-121807 Method SW-846 6010B

SAMPLE NO. : 558264

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Arsenic	mg/kg	23.3	1.13	24.8	102		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 0 outside limits

Spike Recovery: 0 out of 1 outside limits

FORM V (PART 1) - IN

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

Matrix Spike - EPA Sample No: B2-07-GW Method SW-846 6010B

SAMPLE NO. : 558319

COMPOUND	***UNITS***	***SPIKE ADDED***	***SAMPLE CONCENTRATION***	***MS CONCENTRATION***	***MS % REC***	***#***	***QC. LIMITS***
Arsenic	mg/L	.5	.0041	.58	116		80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 0 outside limits

Spike Recovery: 0 out of 1 outside limits

FORM V (PART 1) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: MPT22-SB01-04-12...PDS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 207122033

Level: (low / med)

Lab Sample ID: 558579

Orig Lab Sample ID: 20712203301

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Arsenic	75	125	19.2		1.13	I	23.3	78		mg/kg	SW-846 6010B	P

FORM V (PART 2) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: B2-07-GWPDS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 207122033

Level: (low / med)

Lab Sample ID: 558751

Orig Lab Sample ID: 20712203507

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Arsenic	75	125	.58		.0041	I	.5	115		mg/L	SW-846 6010B	P

FORM V (PART 2) - IN

DUPLICATES

Lab Name: GCAL

Sample ID: MPT22-SB01-04-12...DUP

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 207122033

% Solids for Sample:

Level: (low / med)

% Solids for Duplicate:

Lab Sample ID: 558263

Analyte	LL	UL	Sample	C	Duplicate	C	RPD	Q	Units	Method	Type
Arsenic	0	20	1.13	I	1.11	I	1		mg/kg	SW-846 6010B	P

FORM VI - IN

DUPLICATES

Lab Name: GCAL

Sample ID: B2-07-GWDUP

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 207122033

% Solids for Sample:

Level: (low / med)

% Solids for Duplicate:

Lab Sample ID: 558318

Analyte	LL	UL	Sample	C	Duplicate	C	RPD	Q	Units	Method	Type
Arsenic	0	20	.0041	I	.0041	I	0		mg/L	SW-846 6010B	P

FORM VI - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS558262

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 207122033

Lab Sample ID: 558262

LCS Source: 334-84-2 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Arsenic	20.0	20.6	103	80	120	mg/kg	SW-846 6010B	P

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS558317

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 207122033

Lab Sample ID: 558317

LCS Source: 334-84-2 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Arsenic	0.50	0.54	109	80	120	mg/L	SW-846 6010B	P

FORM VII - IN

SERIAL DILUTIONS

Lab Name: GCAL

Sample ID: MPT22-SB01-04-121807SD

Lab Code: LA024 Case No.

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 207122033

Level: (low / med)

Org Lab Sample ID: 20712203301

Lab Sample ID: 558580

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Arsenic			1.13	I	1.78	I	57.5		mg/kg	SW-846 6010B	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL

Sample ID: B2-07-GWSD

Lab Code: LA024 Case No.

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 207122033

Level: (low / med)

Org Lab Sample ID: 20712203507

Lab Sample ID: 558752

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Arsenic			0.0041	I	0	U	100		mg/L	SW-846 6010B	P

FORM IX - IN

METHOD DETECTION LIMITS

Lab Name: GCAL

Sample ID:

Lab Code: LA024

SDG No.: 207122033

Study Date: (P) 08/22/07 (AV) 09/12/07

Instrument ID: (P) ICP5, ICP6 (AV) FIMS1

Analyte	*MDL*	*Units*	*Type*
Arsenic	0.1	mg/kg	P

FORM X - IN

IEC File Name: 2070717iec

IEC File Last Saved: 7/18/2007 10:53:43 AM
Printed On: 7/18/2007 10:58:47 AM

Results Data Set Name: 2070717 IE
Method Name: ICP5Combine
Results Library: d:\pe\met\Results\Results.md

Interfering Analytes

	Analytes	Aluminum,7429-90-5	Calcium,7440-70-2	Chromium,7440-47-3	Copper,7440-50-8
1	Aluminum,7429-90-5	n/a	0.0076344	0.150467	0.0716397
2	Antimony,7440-36-0	-0.0105785	0	2.8296	0.534012
5	Arsenic,7440-38-2	-0.188683	-0.00572813	3.4852	-0.00509161
6	Barium,7440-39-3	0.00139783	0.00837425	0.280205	0.181675
7	Beryllium,7440-41-7	0	0	0.443802	0.048087
8	Boron,7440-42-8	0.0232478	-0.0142965	-0.0583568	-0.825127
9	Cadmium,7440-43-9	-0.00485939	0	0.935606	0.10555
10	Calcium,7440-70-2	0.0150433	n/a	-1.86809	0.434349
11	Chromium,7440-47-3	0.0302577	0	n/a	0.13099
12	Cobalt,7440-48-4	0.00266999	0	0.22309	0.122988
13	Copper,7440-50-8	0	0.00248923	-0.100929	n/a
14	Iron,7439-89-6	0.0331555	0.0034107	0.499646	0.100943
15	Lead,7439-92-1	-0.232643	-0.00940404	-0.638334	0.433062
16	Lithium,7439-93-2	0	0	0.0146542	0.00148098
17	Magnesium,7439-95-4	-0.0121257	0.0038489	0.044755	0.054193
18	Manganese,7439-96-5	0.00576336	0	0.179382	0.01415
19	Molybdenum,7439-98-7	-0.0171847	0.00347263	0.111992	0.0221681
20	Nickel,7440-02-0	0.00478728	0	0.0570055	0.0344194
21	Potassium,7440-09-7	-0.0641912	-0.00440587	0.678707	0.663326
23	Selenium,7782-49-2	0.0360075	-0.0036157	-0.127925	-0.0563282
24	Silicon,7440-21-3	0.00192399	0.0126132	0.0300663	-0.0508628
25	Silver,7440-22-4	0	0	-0.00643527	0.022448
26	Sodium,7440-23-5	0.0986379	0.145125	0.929888	-0.755255
27	Strontium,7440-24-6	0	0.0274416	0.0192045	0.0654278
28	Thallium,7440-28-0	-0.0236258	-0.00448479	0.288986	0.0550925
29	Tin,7440-31-5	0.00735808	-0.0117479	-0.0164178	0.00699633
30	Titanium,7440-32-6	0	0	0.0465314	0.0103506
31	Vanadium,7440-62-2	0	0	0.151052	-0.0281846
34	Zinc,7440-66-6	0	0.00275581	0.100002	0.27786
35	Zirconium,7440-67-7	0	0	0.117869	0.0788356

IEC File Name: 2070717iec

IEC File Last Saved: 7/18/2007 10:53:43 AM
Printed On: 7/18/2007 10:58:47 AM

Results Data Set Name: 2070717 IE
Method Name: ICP5Combine
Results Library: d:\pe\met\Results\Results.md

Interfering Analytes

	Analytes	Iron,7439-89-6	Magnesium,7439-95-4	Manganese,7439-96-5	Nickel,7440-02-0
1	Aluminum,7429-90-5	0.0280778	-0.0331194	1.91968	0.181449
2	Antimony,7440-36-0	-0.139434	0	0.0698546	0.188458
5	Arsenic,7440-38-2	-0.077337	-0.0048769	-0.305657	-0.689293
6	Barium,7440-39-3	0.0725039	0	0.184572	0.140732
7	Beryllium,7440-41-7	0	0	0.104789	0.278816
8	Boron,7440-42-8	-0.327442	-0.00328698	-2.23803	-0.936389
9	Cadmium,7440-43-9	0.0352542	0	0.229526	0.265442
10	Calcium,7440-70-2	0.122213	0.0653493	1.05897	0.997944
11	Chromium,7440-47-3	-0.031109	-0.0102709	0.763956	0.284588
12	Cobalt,7440-48-4	0.0616757	0	0.19365	0.278583
13	Copper,7440-50-8	0.10677	0.0261378	1.37648	0.560895
14	Iron,7439-89-6	n/a	0.0710884	0.680325	0.713965
15	Lead,7439-92-1	0.0364829	0.00425925	0.164469	0.356417
16	Lithium,7439-93-2	0.00388934	0.00112458	0.0312782	-0.00770117
17	Magnesium,7439-95-4	-0.581666	n/a	1.49581	0.0184537
18	Manganese,7439-96-5	0.0297197	0.00491684	n/a	0.829505
19	Molybdenum,7439-98-7	0.0079762	0	0.182207	0.079968
20	Nickel,7440-02-0	0.0304674	0.0048712	0.505852	n/a
21	Potassium,7440-09-7	-0.0594796	-0.0406784	1.03238	0.639946
23	Selenium,7782-49-2	-0.170564	-0.00704848	0.651099	-0.212244
24	Silicon,7440-21-3	-0.0596366	0.0655248	-0.154661	0.0265243
25	Silver,7440-22-4	-0.00544299	-0.00130777	-0.0466263	-0.0796382
26	Sodium,7440-23-5	0.0549197	0.0322506	-7.10688	-2.53392
27	Strontium,7440-24-6	0.00516346	0	0.0330387	0.0217598
28	Thallium,7440-28-0	-0.0158694	0.0168395	0.911505	-0.00667662
29	Tin,7440-31-5	0.00977227	0.00140892	-0.0391303	-0.0189798
30	Titanium,7440-32-6	0.0106324	0	0.0110618	0.00889388
31	Vanadium,7440-62-2	0.0794721	-0.0143864	0.0720286	0.00930433
34	Zinc,7440-66-6	0.123106	0.032061	0.110878	7.70627
35	Zirconium,7440-67-7	0.0160999	0	0.279568	0.0997839

IEC File Last Saved: 7/18/2007 10:53:43 AM
Printed On: 7/18/2007 10:58:47 AM

Results Data Set Name: 2070717 IE
Method Name: ICP5Combine
Results Library: d:\pe\met\Results\Results.md

Interfering Analytes

	Analytes	Titanium,7440-32-6	Vanadium,7440-62-2
1	Aluminum,7429-90-5	1.589	13.5631
2	Antimony,7440-36-0	0.105746	-9.39057
5	Arsenic,7440-38-2	-0.226477	-28.4823
6	Barium,7440-39-3	0.0230569	0.779564
7	Beryllium,7440-41-7	0.337475	0.286473
8	Boron,7440-42-8	-0.976723	-0.516191
9	Cadmium,7440-43-9	0.00758984	0.222952
10	Calcium,7440-70-2	0.569374	0.749652
11	Chromium,7440-47-3	0.0964764	0.423199
12	Cobalt,7440-48-4	2.25477	0.250926
13	Copper,7440-50-8	0.549432	0.438338
14	Iron,7439-89-6	0.903055	0.777281
15	Lead,7439-92-1	0.425177	0.161292
16	Lithium,7439-93-2	-0.00580417	0.0177783
17	Magnesium,7439-95-4	-3.88427	0.0323772
18	Manganese,7439-96-5	0.240787	-0.271192
19	Molybdenum,7439-98-7	0.0476585	0.154934
20	Nickel,7440-02-0	0.354461	0.295015
21	Potassium,7440-09-7	1.1221	1.00278
23	Selenium,7782-49-2	-0.0988457	0.534046
24	Silicon,7440-21-3	31.9767	0.433105
25	Silver,7440-22-4	-1.70161	-0.389782
26	Sodium,7440-23-5	-4.80701	-1.82096
27	Strontium,7440-24-6	0.00310337	0.530332
28	Thallium,7440-28-0	-11.7595	-12.5635
29	Tin,7440-31-5	-3.77538	0.0232586
30	Titanium,7440-32-6	n/a	0.0514827
31	Vanadium,7440-62-2	-0.125459	n/a
34	Zinc,7440-66-6	-0.309971	-0.0443526
35	Zirconium,7440-67-7	-0.028163	0.220216

ICP LINEAR RANGES

Lab Name: GCAL

Lab Code: LA024

Study Date: 07/18/07

Sample ID:

SDG No.: 207122033

Instrument ID: ICP5

Analyte	*Concentration*	*% Recovery*	*Units*	*Type*
Aluminum	60000	102	mg/kg	P
Antimony	1200	105	mg/kg	P
Arsenic	1000	96	mg/kg	P
Barium	1000	96	mg/kg	P
Beryllium	120	100	mg/kg	P
Boron	2000	92	mg/kg	P
Cadmium	600	95	mg/kg	P
Calcium	80000	100	mg/kg	P
Chromium	4000	99	mg/kg	P
Cobalt	6000	103	mg/kg	P
Copper	4000	95	mg/kg	P
Iron	32000	95	mg/kg	P
Lead	20000	101	mg/kg	P
Lithium	800	105	mg/kg	P
Magnesium	36000	104	mg/kg	P
Manganese	1200	95	mg/kg	P
Molybdenum	3200	90	mg/kg	P
Nickel	2400	103	mg/kg	P
Potassium	6000	101	mg/kg	P
Selenium	600	98	mg/kg	P
Silver	400	95	mg/kg	P
Sodium	24000	97	mg/kg	P
Strontium	200	103	mg/kg	P
Thallium	800	105	mg/kg	P
Tin	2000	90	mg/kg	P
Titanium	1600	98	mg/kg	P
Vanadium	4000	100	mg/kg	P
Zinc	600	100	mg/kg	P

FORM XII - IN

PREPARATION LOG

Lab Name: GCAL Sample ID:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

Method: SW-846 6010B Method Type: P

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
LCS558262	12/20/07	1.25	g	50	mL
MB558261	12/20/07	1.25	g	50	mL
MPT22-SB01-04-12...DUP	12/20/07	1.25	g	50	mL
MPT22-SB01-04-121807	12/20/07	1.25	g	50	mL
MPT22-SB01-04-121807MS	12/20/07	1.25	g	50	mL
MPT22-SB02-04-121807	12/20/07	1.26	g	50	mL
MPT22-SB03-04-121807	12/20/07	1.25	g	50	mL
MPT22-SB04-04-121807	12/20/07	1.26	g	50	mL
MPT22-SB05-04-121807	12/20/07	1.25	g	50	mL

FORM XIII - IN

PREPARATION LOG

Lab Name: GCAL Sample ID:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033

Method: SW-846 6010B Method Type: P

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
B2-07-GWDUP	12/20/07			50	mL
B2-07-GWMS	12/20/07			50	mL
LCS558317	12/20/07			50	mL
MB558316	12/20/07			50	mL
MPT22-RB01-121807	12/20/07			50	mL

FORM XIII - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 12/21/07

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033 End Date: 12/22/07

Instrument ID Number: ICP5 Method: SW-846 6010B Method Type: P

				Analyte Symbols																														
Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1056			X																												
ICV2	*	1	1105			X																												
ICB	*	1	1112			X																												
CRDL	*	1	1119			X																												
CRDL2	*	1	1129																															
ICSA	*	1	1138			X																												
ICSAB	*	1	1155			X																												
CCV	*	1	1209			X																												
CCB	*	1	1217			X																												
CCV	*	1	1250			X																												
CCB	*	1	1258			X																												
MB558261	*	1	1305			X																												
LCS558262	*	1	1312			X																												
MPT22-SB01-04-121807	*	1	1319			X																												
MPT22-SB01-04-12...DUP	*	1	1327			X																												
MPT22-SB01-04-121807MS	*	1	1334			X																												
MPT22-SB01-04-12...PDS	*	1	1341			X																												
MPT22-SB01-04-121807SD	*	5	1348			X																												
MPT22-SB03-04-121807	*	1	1402			X																												
MPT22-SB04-04-121807	*	1	1409			X																												
CCV	*	1	1431			X																												
CCB	*	1	1438			X																												
MPT22-SB05-04-121807	*	1	1446			X																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1453																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1500																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1507																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1514																															

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 12/21/07

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033 End Date: 12/22/07

Instrument ID Number: ICP5 Method: SW-846 6010B Method Type: P

Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
				Analyte Symbols																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1521																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1529																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1536																															
MPT22-SB02-04-121807	*	2	1550			X																												
CCV	*	1	1557			X																												
CCB	*	1	1616			X																												

FORM XIV - IN

55

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 12/22/07

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033 End Date: 12/23/07

Instrument ID Number: ICP5 Method: SW-846 6010B Method Type: P

				Analyte Symbols																														
Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1316			X																												
ICV2	*	1	1323																															
ICB	*	1	1330			X																												
CRDL	*	1	1337			X																												
CRDL2	*	1	1345																															
ICSA	*	1	1408			X																												
ICSAB	*	1	1415			X																												
CCV	*	1	1423			X																												
CCB	*	1	1431			X																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1440																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1447																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1454																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1501																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1508																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1516																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1523																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1530																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1537																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1544																															
CCV	*	1	1551			X																												
CCB	*	1	1559			X																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1606																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1613																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1620																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1627																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1634																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1642																															

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 12/22/07

Lab Code: LA024 Case No.: SAS No.: SDG No.: 207122033 End Date: 12/23/07

Instrument ID Number: ICP5 Method: SW-846 6010B Method Type: P

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1649																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1656																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1703																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1710																															
CCV	*	1	1718			X																												
CCB	*	1	1725			X																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1800																															
CCV	*	1	1902			X																												
CCB	*	1	1912			X																												
MB558316	*	1	1919			X																												
LCS558317	*	1	1926			X																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1934																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1941			X																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1948			X																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1955			X																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	5	2002			X																												
MPT22-RB01-121807	*	1	2009			X																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2017																															
CCV	*	1	2031			X																												
CCB	*	1	2038			X																												

FORM XIV - IN

Sample MPT22-SB01-04-121807
arsenic rep. result 1.13 mg/kg

$$\left(\frac{0.02436\ mg}{L}\right)\left(\frac{50\ ml}{1.25g}\right)\left(\frac{1}{.859}\right) = 1.13\ mg/kg$$

Vanadium,7440-62-2†	29430.9	0.49850 mg/L	0.012734	19.9402 mg/kg	0.50935	2.55%
Zinc,7440-66-6†	13097.8	0.49430 mg/L	0.013064	19.7718 mg/kg	0.52256	2.64%
Zirconium,7440-67-7†	124.5	0.00031 mg/L	0.000146	0.01242 mg/kg	0.005849	47.09%

Sequence No.: 18
Sample ID: 20712203301
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 19
Date Collected: 12/21/2007 1:19:48 PM
Data Type: Reprocessed on 12/22/2007 12:11:12 PM

Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 20712203301

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	1744875.8	98.7188	%	1.38959				1.41%
Yttrium,7440-65-5A	1021081.3	99.9772	%	1.29589				1.30%
Yttrium,7440-65-5R	60095.4	101.634	%	0.5602				0.55%
Ar 420.067 R	964376.9	99.2471	%	0.43411				0.44%
Ar 363.268 A	42080.9	101.080	%	0.3108				0.31%
Aluminum,7429-90-5†	800.0	4.26320	mg/L	0.045313	170.528	mg/kg	1.8125	1.06%
Antimony,7440-36-0†	2.0	0.00441	mg/L	0.002562	0.17633	mg/kg	0.102492	58.12%
Arsenic,7440-38-2†	9.0	0.02436	mg/L	0.009599	0.97441	mg/kg	0.383956	39.40%
Barium,7440-39-3†	1246.2	0.02711	mg/L	0.000484	1.08447	mg/kg	0.019357	1.78%
Beryllium,7440-41-7†	1774.8	0.00120	mg/L	0.000033	0.04787	mg/kg	0.001313	2.74%
Boron,7440-42-8†	182.2	0.02525	mg/L	0.001984	1.00989	mg/kg	0.079375	7.86%
Cadmium,7440-43-9†	27.1	0.00053	mg/L	0.000145	0.02130	mg/kg	0.005801	27.24%
Calcium,7440-70-2†	384019.4	309.367	mg/L	2.1615	12374.7	mg/kg	86.46	0.70%
Chromium,7440-47-3†	1027.3	0.02843	mg/L	0.000664	1.13730	mg/kg	0.026574	2.34%
Cobalt,7440-48-4†	31.5	0.00156	mg/L	0.000549	0.06225	mg/kg	0.021976	35.30%
Copper,7440-50-8†	708.1	0.00491	mg/L	0.000659	0.19659	mg/kg	0.026343	13.40%
Iron,7439-89-6†	3083.4	7.71029	mg/L	0.053477	308.412	mg/kg	2.1391	0.69%
Lead,7439-92-1†	-52.5	-0.00811	mg/L	0.001538	-0.32428	mg/kg	0.061529	18.97%
Lithium,7439-93-2†	226.1	0.00375	mg/L	0.000605	0.15001	mg/kg	0.024219	16.15%
Magnesium,7439-95-4†	240.6	2.86591	mg/L	0.004993	114.636	mg/kg	0.1997	0.17%
Manganese,7439-96-5†	37428.9	0.15670	mg/L	0.002240	6.26788	mg/kg	0.089596	1.43%
Molybdenum,7439-98-7†	14.5	0.00133	mg/L	0.001089	0.05316	mg/kg	0.043562	81.94%
Nickel,7440-02-0†	65.5	0.00318	mg/L	0.000845	0.12702	mg/kg	0.033790	26.60%
Potassium,7440-09-7†	777.6	0.58311	mg/L	0.025052	23.3243	mg/kg	1.00208	4.30%
Selenium,7782-49-2†	-8.1	-0.01712	mg/L	0.006527	-0.68487	mg/kg	0.261062	38.12%
Silicon,7440-21-3†	210.1	3.18938	mg/L	0.031549	127.575	mg/kg	1.2620	0.99%
Silver,7440-22-4†	63.8	-0.00561	mg/L	0.000798	-0.22433	mg/kg	0.031934	14.24%
Sodium,7440-23-5†	-3.5	-0.04626	mg/L	0.033094	-1.85030	mg/kg	1.323769	71.54%
Strontium,7440-24-6†	109261.7	1.15611	mg/L	0.005825	46.2446	mg/kg	0.23300	0.50%
Thallium,7440-28-0†	-5.0	-0.00406	mg/L	0.011261	-0.16228	mg/kg	0.450434	277.56%
Tin,7440-31-5†	-188.0	-0.13042	mg/L	0.002621	-5.21696	mg/kg	0.104844	2.01%
Titanium,7440-32-6†	37139.6	0.15262	mg/L	0.002735	6.10500	mg/kg	0.109396	1.79%
Vanadium,7440-62-2†	1821.1	0.03030	mg/L	0.000734	1.21200	mg/kg	0.029362	2.42%
Zinc,7440-66-6†	376.1	0.01243	mg/L	0.000474	0.49737	mg/kg	0.018947	3.81%
Zirconium,7440-67-7†	445.4	0.00261	mg/L	0.000630	0.10421	mg/kg	0.025187	24.17%

Sequence No.: 19
Sample ID: 558263
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 20
Date Collected: 12/21/2007 1:27:01 PM
Data Type: Reprocessed on 12/22/2007 12:11:13 PM

Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 558263

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	1750335.0	99.0276	%	0.69129				0.70%
Yttrium,7440-65-5A	1030241.6	100.874	%	0.7731				0.77%
Yttrium,7440-65-5R	59962.6	101.410	%	0.4897				0.48%
Ar 420.067 R	949458.6	97.7118	%	0.34187				0.35%
Ar 363.268 A	41345.1	99.3120	%	0.25462				0.26%
Aluminum,7429-90-5†	794.4	4.23377	mg/L	0.035570	169.351	mg/kg	1.4228	0.84%
Antimony,7440-36-0†	1.0	0.00288	mg/L	0.001056	0.11537	mg/kg	0.042254	36.63%

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**S. BALLARD**	**DATE:**	**APRIL 29, 2008**
FROM:	**TERRI L. SOLOMON**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – SELECT METALS**
CTO – 0010 NAVSTA MAYPORT
SAMPLE DELIVERY GROUP (SDG) – 208030427

SAMPLES: 33/Soils/

MPT04-SB02-05-022908	MPT04-SB02-07-022908
MPT04-SB02-09-022908	MPT04-SB02-11-022908
MPT04-SB03-05-022908	MPT04-SB03-07-022908
MPT04-SB03-09-022908	MPT04-SB03-11-022908
MPT04-SB04-05-022908	MPT04-SB04-07-022908
MPT04-SB04-09-022908	MPT04-SB04-11-022908
MPT05-SB01-04-022808	MPT05-SB02-04-022808
MPT05-SB02-06-022808	MPT05-SB02-08-022808
MPT05-SB02-10-022808	MPT05-SB03-04-022808
MPT05-SB03-06-022808	MPT05-SB04-04-022808
MPT05-SB04-06-022808	MPT05-SB04-08-022808
MPT05-SB04-10-022808	MPT05-SS02-01-022808
MPT05-SS04-01-022808	MPT05-SS05-01-030308
MPT05-SS06-01-030308	MPT05-SS07-01-030308
MPT05-SS08-01-030308	MPT05-SS09-01-030308
MPT05-SS10-01-030308	MPT05-SS11-01-030308
MPT05-SS12-01-030308	

Overview

The sample set for CTO 0010, NAVSTA Mayport, SDG 208030427, consists of thirty-three (33) soil environmental samples. No field duplicate pairs are included within this SDG.

Samples MPT04-SB02-05-022908, MPT04-SB02-07-022908, MPT04-SB02-09-022908, MPT04-SB02-11-022908, MPT04-SB03-05-022908, MPT04-SB03-07-022908, MPT04-SB03-09-022908, MPT04-SB03-11-022908, MPT04-SB04-05-022908, MPT04-SB04-07-022908, MPT04-SB04-09-022908 and MPT04-SB04-11-022908 were analyzed for arsenic and barium. Samples MPT05-SB01-04-022808, MPT05-SB02-04-022808, MPT05-SB02-06-022808, MPT05-SB02-08-022808, MPT05-SB02-10-022808, MPT05-SB03-04-022808, MPT05-SB03-06-022808, MPT05-SB04-04-022808, MPT05-SB04-06-022808, MPT05-SB04-08-022808, MPT05-SB04-10-022808, MPT05-SS02-01-022808 and MPT05-SS04-01-022808 were analyzed for arsenic, barium and vanadium. Samples MPT05-SS05-01-030308, MPT05-SS06-01-030308, MPT05-SS07-01-030308, MPT05-SS08-01-030308, MPT05-SS09-01-030308, MPT05-SS10-01-030308, MPT05-SS11-01-030308 and MPT05-SS12-01-030308 were analyzed for arsenic. The samples were collected by Tetra Tech NUS on February 28 and March 3, 2008 and analyzed by Gulf Coast Analytical Laboratories, Inc. under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. Metals analyses were conducted using SW-846 method 6010B.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Verification Results
  • Laboratory Method / Preparation Blank Analyses
* • ICP Interference Check Sample Results
* • Laboratory Control Sample Results
  • Laboratory Duplicate Results
* • Matrix Spike Results
  • ICP Serial Dilution Results
* • Sample Quantitation
* • Detection Limits

* - All quality control criteria were met for this parameter.

Laboratory Duplicate Results

Laboratory duplicate imprecision (relative percent difference > 35%) was noted for barium affecting samples MPT04-SB03-11-022908, MPT04-SB04-05-022908, MPT04-SB04-07-022908, MPT04-SB04-09-022908 and MPT04-SB04-11-022908. The positive results reported for barium in the affected samples were qualified as estimated, "J".

ICP Serial Dilution Results

The ICP serial dilution percent difference was > 10% quality control limit for barium affecting samples MPT04-SB03-11-022908, MPT04-SB04-05-022908, MPT04-SB04-07-022908, MPT04-SB04-09-022908 and MPT04-SB04-11-022908. The positive results reported for barium in the affected samples were qualified as estimated, "J".

The ICP serial dilution percent difference was > 10% quality control limit for vanadium affecting samples MPT05-SB01-04-022808, MPT05-SB02-04-022808, MPT05-SB02-06-022808, MPT05-SB02-08-022808, MPT05-SB02-10-022808, MPT05-SB03-04-022808, MPT05-SB03-06-022808, MPT05-SB04-04-022808, MPT05-SB04-06-022808, MPT05-SB04-08-022808, MPT05-SB04-10-022808 and MPT05-SS02-01-022808. The positive results reported for vanadium in the affected samples were qualified as estimated, "J".

Notes

The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Arsenic[1]	0.0043 mg/kg	0.0215 mg/kg
Barium[2]	0.018 mg/kg	0.09 mg/kg
Barium[3]	0.029 mg/kg	0.145 mg/kg
Vanadium[2]	0.086 mg/kg	0.43 mg/kg

(1) Maximum concentration present in a laboratory blank affecting samples MPT04-SB02-07-022908, MPT05-SB02-08-022808, MPT05-SB02-10-022808, MPT05-SS04-01-022808, MPT05-SB04-06-022808, MPT04-SB02-09-022908, MPT04-SB02-11-022908, MPT04-SB03-05-022908, MPT04-SB03-07-022908, MPT04-SB03-09-022908.

(2) Maximum concentration present a soil preparation blank affecting samples MPT04-SB02-05-022908, MPT04-SB02-07-022908, MPT04-SB02-09-022908, MPT04-SB02-11-022908, MPT04-SB03-05-022908, MPT04-SB03-07-022908, MPT04-SB03-09-022908, MPT05-SB01-04-022808, MPT05-SB02-04-022808, MPT05-SB02-06-022808, MPT05-SB02-08-022808, MPT05-SB02-10-022808, MPT05-SB03-04-022808, MPT05-SB03-06-022808, MPT05-SB04-04-022808, MPT05-SB04-06-022808, MPT05-SB04-08-022808, MPT05-SB04-10-022808, MPT05-SS02-01-022808 and MPT05-SS04-01-022808.

(3) Maximum concentration present a soil preparation blank affecting samples MPT04-SB03-11-022908, MPT04-SB04-05-022908, MPT04-SB04-07-022908, MPT04-SB04-09-022908, MPT04-SB04-11-022908, MPT05-SS05-01-030308, MPT05-SS06-01-030308, MPT05-SS07-01-030308, MPT05-SS08-01-030308, MPT05-SS09-01-030308, MPT05-SS10-01-030308, MPT05-SS11-01-030308 and MPT05-SS12-01-030308.

An action level of 5X the maximum concentration has been used to evaluate the sample data for blank contamination. Sample aliquot, percent solids and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. No validation actions were warranted as a result of laboratory blank contamination.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: Laboratory duplicate imprecision was noted for barium affecting several samples. The ICP serial dilution percent differences were > 10% quality control limit for barium and vanadium affecting several samples.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", October 2004 and the DOD document entitled "Quality System Manual (QSM) for Environmental Laboratories" (January 2006).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines."

Tetra Tech NUS
Terri L. Solomon
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS-GFAA MSA's r < 0.995 / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O - Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DOT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: M

nsample	MPT04-SB02-05-022908	nsample	MPT04-SB02-07-022908	nsample	MPT04-SB02-09-022908
samp_date	2/28/2008	samp_date	2/28/2008	samp_date	2/28/2008
lab_id	20803042714	lab_id	20803042715	lab_id	20803042716
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	94.1	Pct_Solids	84.9	Pct_Solids	76.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.61		
BARIUM	3.06		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.15		
BARIUM	3.07		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.54		
BARIUM	5.3		

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: M

nsample	MPT04-SB02-11-022908
samp_date	2/28/2008
lab_id	20803042717
qc_type	NM
units	MG/KG
Pct_Solids	78.5
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.73		
BARIUM	4.31		

nsample	MPT04-SB03-05-022908
samp_date	2/28/2008
lab_id	20803042718
qc_type	NM
units	MG/KG
Pct_Solids	74.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.28		
BARIUM	1.98		

nsample	MPT04-SB03-07-022908
samp_date	2/28/2008
lab_id	20803042719
qc_type	NM
units	MG/KG
Pct_Solids	82.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.24		
BARIUM	1.73		

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: M

nsample	MPT04-SB03-09-022908	nsample	MPT04-SB03-11-022908	nsample	MPT04-SB04-05-022908
samp_date	2/28/2008	samp_date	2/28/2008	samp_date	2/28/2008
lab_id	20803042720	lab_id	20803042721	lab_id	20803042722
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	70.3	Pct_Solids	48.5	Pct_Solids	87.2
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.09		
BARIUM	3.83		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.21	U	
BARIUM	10.5	J	FI

Parameter	Result	Val Qual	Qual Code
ARSENIC	3.17		
BARIUM	3.54	J	FI

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: M

nsample	MPT04-SB04-07-022908
samp_date	2/28/2008
lab_id	20803042723
qc_type	NM
units	MG/KG
Pct_Solids	80.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.33		
BARIUM	7.48	J	FI

nsample	MPT04-SB04-09-022908
samp_date	2/28/2008
lab_id	20803042724
qc_type	NM
units	MG/KG
Pct_Solids	76.5
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.43		
BARIUM	4.09	J	FI

nsample	MPT04-SB04-11-022908
samp_date	2/28/2008
lab_id	20803042725
qc_type	NM
units	MG/KG
Pct_Solids	81.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.13	U	
BARIUM	2.54	J	FI

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: M

nsample	MPT05-SB01-04-022808	nsample	MPT05-SB02-04-022808	nsample	MPT05-SB02-06-022808
samp_date	2/28/2008	samp_date	2/28/2008	samp_date	2/28/2008
lab_id	20803042701	lab_id	20803042703	lab_id	20803042704
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	94.1	Pct_Solids	81.4	Pct_Solids	89.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.36		
BARIUM	8.18		
VANADIUM	3.16	J	I

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.76		
BARIUM	7.63		
VANADIUM	6.93	J	I

Parameter	Result	Val Qual	Qual Code
ARSENIC	5.62		
BARIUM	72.5		
VANADIUM	5.64	J	I

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: M

nsample	MPT05-SB02-08-022808	nsample	MPT05-SB02-10-022808	nsample	MPT05-SB03-04-022808
samp_date	2/28/2008	samp_date	2/28/2008	samp_date	2/28/2008
lab_id	20803042705	lab_id	20803042706	lab_id	20803042707
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	86.1	Pct_Solids	82.2	Pct_Solids	78.4
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.01		
BARIUM	7.77		
VANADIUM	2.83	J	I

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.82		
BARIUM	10.2		
VANADIUM	1.83	J	I

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.15		
BARIUM	7.56		
VANADIUM	3.18	J	I

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: M

nsample	MPT05-SB03-06-022808	nsample	MPT05-SB04-04-022808	nsample	MPT05-SB04-06-022808
samp_date	2/28/2008	samp_date	2/28/2008	samp_date	2/28/2008
lab_id	20803042708	lab_id	20803042710	lab_id	20803042711
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	72.1	Pct_Solids	51.0	Pct_Solids	77.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.46		
BARIUM	7.08		
VANADIUM	2.96	J	I

Parameter	Result	Val Qual	Qual Code
ARSENIC	16.3		
BARIUM	40.2		
VANADIUM	45.6	J	I

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.33		
BARIUM	6.95		
VANADIUM	2.6	J	I

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: M

nsample	MPT05-SB04-08-022808
samp_date	2/28/2008
lab_id	20803042712
qc_type	NM
units	MG/KG
Pct_Solids	78.5
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.69		
BARIUM	3.47		
VANADIUM	1.48	J	I

nsample	MPT05-SB04-10-022808
samp_date	2/28/2008
lab_id	20803042713
qc_type	NM
units	MG/KG
Pct_Solids	79.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.93		
BARIUM	3.44		
VANADIUM	2.27	J	I

nsample	MPT05-SS02-01-022808
samp_date	2/28/2008
lab_id	20803042702
qc_type	NM
units	MG/KG
Pct_Solids	90.4
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	4.83		
BARIUM	7.47		
VANADIUM	14.1	J	I

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: M

nsample	MPT05-SS04-01-022808
samp_date	2/28/2008
lab_id	20803042709
qc_type	NM
units	MG/KG
Pct_Solids	90.1
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.26		
BARIUM	7.58		
VANADIUM	4.85	J	I

nsample	MPT05-SS05-01-030308
samp_date	3/3/2008
lab_id	20803042726
qc_type	NM
units	MG/KG
Pct_Solids	82.2
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.11		

nsample	MPT05-SS06-01-030308
samp_date	3/3/2008
lab_id	20803042727
qc_type	NM
units	MG/KG
Pct_Solids	82.9
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	1.85		

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: M

nsample	MPT05-SS07-01-030308	nsample	MPT05-SS08-01-030308	nsample	MPT05-SS09-01-030308
samp_date	3/3/2008	samp_date	3/3/2008	samp_date	3/3/2008
lab_id	20803042728	lab_id	20803042729	lab_id	20803042730
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	89.5	Pct_Solids	77.8	Pct_Solids	96.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.6		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.13	U	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.22	U	

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: M

nsample	MPT05-SS10-01-030308	nsample	MPT05-SS11-01-030308	nsample	MPT05-SS12-01-030308
samp_date	3/3/2008	samp_date	3/3/2008	samp_date	3/3/2008
lab_id	20803042731	lab_id	20803042732	lab_id	20803042733
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	89.0	Pct_Solids	80.7	Pct_Solids	81.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.89		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.4		

Parameter	Result	Val Qual	Qual Code
ARSENIC	0.13	U	

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT04-SB02-05-022908
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 94.13
Lab Sample ID: 20803042714
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1112

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.61	mg/kg	I	0.11	1.69	SW-846 6010B	P
Barium	3.06	mg/kg		0.015	0.42	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT04-SB02-07-022908
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 84.92
Lab Sample ID: 20803042715
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1121

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.15	mg/kg	I	0.12	1.88	SW-846 6010B	P
Barium	3.07	mg/kg		0.016	0.47	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT04-SB02-09-022908
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 76.01
Lab Sample ID: 20803042716
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1128

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.54	mg/kg	I	0.14	2.10	SW-846 6010B	P
Barium	5.30	mg/kg		0.018	0.53	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT04-SB02-11-022908
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 78.51
Lab Sample ID: 20803042717
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1135

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.73	mg/kg	I	0.13	2.02	SW-846 6010B	P
Barium	4.31	mg/kg		0.018	0.51	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT04-SB03-05-022908
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 74.74
Lab Sample ID: 20803042718
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1309

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.28	mg/kg	I	0.14	2.14	SW-846 6010B	P
Barium	1.98	mg/kg		0.019	0.54	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT04-SB03-07-022908
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 82.76
Lab Sample ID: 20803042719
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1314

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.24	mg/kg	I	0.13	1.93	SW-846 6010B	P
Barium	1.73	mg/kg		0.017	0.48	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT04-SB03-09-022908
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 70.25
Lab Sample ID: 20803042720
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1339

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	1.09	mg/kg	I	0.15	2.26	SW-846 6010B	P
Barium	3.83	mg/kg		0.020	0.56	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT04-SB03-11-022908
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 48.45
Lab Sample ID: 20803042721
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1405

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.21	mg/kg	U	0.21	3.28	SW-846 6010B	P
Barium	10.5	mg/kg		0.029	0.82	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT04-SB04-05-022908
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 87.23
Lab Sample ID: 20803042722
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1438

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	3.17	mg/kg		0.12	1.83	SW-846 6010B	P
Barium	3.54	mg/kg		0.016	0.46	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT04-SB04-07-022908
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 80.77
Lab Sample ID: 20803042723
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1442

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.33	mg/kg	I	0.13	1.98	SW-846 6010B	P
Barium	7.48	mg/kg		0.017	0.50	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT04-SB04-09-022908
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 76.49
Lab Sample ID: 20803042724
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1453

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.43	mg/kg	I	0.13	2.08	SW-846 6010B	P
Barium	4.09	mg/kg		0.018	0.52	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT04-SB04-11-022908
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 81.79
Lab Sample ID: 20803042725
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1508

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.13	mg/kg	U	0.13	1.96	SW-846 6010B	P
Barium	2.54	mg/kg		0.017	0.49	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL

Sample ID: MPT05-SB01-04-022808

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 208030427

Level: (low / med) % Solids: 94.10

Lab Sample ID: 20803042701

Date Received: 03/04/08 Time: 1230

Date Collected: 02/28/08 Time: 1010

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.36	mg/kg	I	0.11	1.70	SW-846 6010B	P
Barium	8.18	mg/kg		0.015	0.43	SW-846 6010B	P
Vanadium	3.16	mg/kg		0.050	0.85	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SB02-04-022808
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 81.35
Lab Sample ID: 20803042703
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1106

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.76	mg/kg	I	0.13	1.97	SW-846 6010B	P
Barium	7.63	mg/kg		0.017	0.49	SW-846 6010B	P
Vanadium	6.93	mg/kg		0.058	0.98	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SB02-06-022808
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 89.82
Lab Sample ID: 20803042704
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1113

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	5.62	mg/kg		0.11	1.77	SW-846 6010B	P
Barium	72.5	mg/kg		0.015	0.44	SW-846 6010B	P
Vanadium	5.64	mg/kg		0.052	0.88	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SB02-08-022808
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 86.12
Lab Sample ID: 20803042705
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1118

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	2.01	mg/kg	I	0.24	3.72	SW-846 6010B	P
Barium	7.77	mg/kg		0.033	0.93	SW-846 6010B	P
Vanadium	2.83	mg/kg		0.11	1.86	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SB02-10-022808
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 82.18
Lab Sample ID: 20803042706
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1127

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.82	mg/kg	I	0.25	3.86	SW-846 6010B	P
Barium	10.2	mg/kg		0.034	0.97	SW-846 6010B	P
Vanadium	1.83	mg/kg	I	0.11	1.93	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL

Sample ID: MPT05-SB03-04-022808

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 208030427

Level: (low / med) % Solids: 78.39

Lab Sample ID: 20803042707

Date Received: 03/04/08 Time: 1230

Date Collected: 02/28/08 Time: 1153

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.15	mg/kg	I	0.13	2.04	SW-846 6010B	P
Barium	7.56	mg/kg		0.018	0.51	SW-846 6010B	P
Vanadium	3.18	mg/kg		0.060	1.02	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SB03-06-022808
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 72.04
Lab Sample ID: 20803042708
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1230

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.46	mg/kg	I	0.14	2.22	SW-846 6010B	P
Barium	7.08	mg/kg		0.019	0.56	SW-846 6010B	P
Vanadium	2.96	mg/kg		0.065	1.11	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SB04-04-022808
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 51.01
Lab Sample ID: 20803042710
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1445

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	16.3	mg/kg		0.20	3.11	SW-846 6010B	P
Barium	40.2	mg/kg		0.027	0.78	SW-846 6010B	P
Vanadium	45.6	mg/kg		0.091	1.56	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SB04-06-022808
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 77.77
Lab Sample ID: 20803042711
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1501

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.33	mg/kg	I	0.27	4.11	SW-846 6010B	P
Barium	6.95	mg/kg		0.036	1.03	SW-846 6010B	P
Vanadium	2.60	mg/kg		0.12	2.06	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SB04-08-022808
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 78.45
Lab Sample ID: 20803042712
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1525

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.69	mg/kg	I	0.13	2.04	SW-846 6010B	P
Barium	3.47	mg/kg		0.018	0.51	SW-846 6010B	P
Vanadium	1.48	mg/kg		0.060	1.02	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SB04-10-022808
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 78.95
Lab Sample ID: 20803042713
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1531

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.93	mg/kg	I	0.13	2.01	SW-846 6010B	P
Barium	3.44	mg/kg		0.018	0.50	SW-846 6010B	P
Vanadium	2.27	mg/kg		0.059	1.01	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SS02-01-022808
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 90.38
Lab Sample ID: 20803042702
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1057

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	4.83	mg/kg		0.12	1.77	SW-846 6010B	P
Barium	7.47	mg/kg		0.015	0.44	SW-846 6010B	P
Vanadium	14.1	mg/kg		0.052	0.89	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SS04-01-022808
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 90.12
Lab Sample ID: 20803042709
Date Received: 03/04/08
Time: 1230
Date Collected: 02/28/08
Time: 1435

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.26	mg/kg	I	0.23	3.52	SW-846 6010B	P
Barium	7.58	mg/kg		0.031	0.88	SW-846 6010B	P
Vanadium	4.85	mg/kg		0.10	1.76	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SS05-01-030308
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 82.22
Lab Sample ID: 20803042726
Date Received: 03/04/08
Time: 1230
Date Collected: 03/03/08
Time: 1140

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	1.11	mg/kg	I	0.13	1.95	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SS06-01-030308
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 82.84
Lab Sample ID: 20803042727
Date Received: 03/04/08
Time: 1230
Date Collected: 03/03/08
Time: 1157

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	1.85	mg/kg	I	0.12	1.92	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SS07-01-030308
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 89.51
Lab Sample ID: 20803042728
Date Received: 03/04/08
Time: 1230
Date Collected: 03/03/08
Time: 1214

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.60	mg/kg	I	0.12	1.77	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SS08-01-030308
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 77.83
Lab Sample ID: 20803042729
Date Received: 03/04/08
Time: 1230
Date Collected: 03/03/08
Time: 1226

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.13	mg/kg	U	0.13	2.06	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SS09-01-030308
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 96.01
Lab Sample ID: 20803042730
Date Received: 03/04/08
Time: 1230
Date Collected: 03/03/08
Time: 1243

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.22	mg/kg	U	0.22	3.33	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SS10-01-030308
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 88.98
Lab Sample ID: 20803042731
Date Received: 03/04/08
Time: 1230
Date Collected: 03/03/08
Time: 1259

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.89	mg/kg	I	0.12	1.80	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SS11-01-030308
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 80.65
Lab Sample ID: 20803042732
Date Received: 03/04/08
Time: 1230
Date Collected: 03/03/08
Time: 1311

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.40	mg/kg	I	0.26	3.97	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MPT05-SS12-01-030308
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 208030427
Level: (low / med)
% Solids: 80.97
Lab Sample ID: 20803042733
Date Received: 03/04/08
Time: 1230
Date Collected: 03/03/08
Time: 1328

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.13	mg/kg	U	0.13	1.96	SW-846 6010B	P

FORM I - IN

APPENDIX C
SUPPORT DOCUMENTATION

CASE NARRATIVE

Client: Tetra Tech NUS, Inc. **Report:** 208030427

Contract Task Order No.: 0010

Site: NAVSTA Mayport

Project Manager: Shina Ballard

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

Additional Flags:

I – The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

SEMI-VOLATILES MASS SPECTROMETRY

Samples 20803042718 (MPT04-SB03-05-022908) and 20803042727 (MPT05-SS06-01-030308) exhibited a recovery for the internal standard 1,4-Dichlorobenzene d4 outside of the inclusive range of -50% to +100% relative to the midpoint of the initial calibration. However, no target analytes are quantitated using 1,4-Dichlorobenzene d4.

In the SW-846 8270C analysis of analytical batch 368921, Dibenz(a,h)anthracene has a %D of –26.2% in the CCV, which is outside of project criteria of ±20%.

In the SW-846 8270C analysis, the recovery for the surrogate, Terphenyl-d14 recovery was above the upper project control limit for samples MB (580708), LCSD (580710), and 20803042722 (MPT04-SB04-05-022908). The recovery for the surrogate, 2-Fluorobiphenyl was above the upper project control limit for sample 20803042725 (MPT04-SB04-11-022908).

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the SW-846 8082 analysis, samples 20803042707 (MPT05-SB03-04-022808), 20803042708 (MPT05-SB03-06-022808) and 20803042710 (MPT05-SB04-04-022808) required a dilution prior to analysis to eliminate interference from non-target background. The dilutions are reflected in elevated detection limits. The recovery for the surrogate is reported as "D", diluted out.

METALS

In the SW-846 6010B analysis, a chemical or physical interference necessitated a dilution for samples 20803042705 (MPT05-SB02-08-022808), 20803042706 (MPT05-SB02-10-022808), 20803042709 (MPT05-SS04-01-022808), 20803042711 (MPT05-SB04-06-022808), 20803042730 (MPT05-SS09-01-030308), and 20803042732 (MPT05-SS11-01-030308). This is reflected in elevated detection limits.

In the SW-846 6010B analysis for prep batch 368455, the MS recovery was outside the control limits for Vanadium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 101%. Vanadium is flagged "E", estimated on the serial dilution form due to the fact that the percent difference between the original sample result and the serial dilution result for the batch QC sample is greater than 10. A chemical or physical interference is suspected.

In the SW-846 6010B analysis for prep batch 368456, the MS recovery was outside the control limits for Barium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 87%. The Sample/Duplicate RPD for Barium was outside the control limits. The heterogeneous nature of the QC sample is believed to be responsible for this. The Sample/Duplicate RPD for Arsenic is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit. Barium is flagged "E", estimated on the serial dilution form due to the fact that the percent difference between the original sample result and the serial dilution result for the batch QC sample is greater than 10. A chemical or physical interference is suspected.

MISCELLANEOUS

DoH ELCP certification # E87854

Tetra tech/ 4662/ 20080304 27/3-9-08

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 26289 | **PAGE** 1 **OF** 2

PROJECT NO: 112G00203	FACILITY: NAVSTA Mayport	PROJECT MANAGER Shona Ballard	PHONE NUMBER 904-636-6125	LABORATORY NAME AND CONTACT: GCAL / Liz Martin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER Donald Hardison	PHONE NUMBER 904-636-6125	ADDRESS 7979 GSRI Avenue
		CARRIER/WAYBILL NUMBER 8427 1834 3489		CITY, STATE Baton Rouge, LA 70820

STANDARD TAT [X]
RUSH TAT [ ]
[ ] 24 hr. [ ] 48 hr. [ ] 72 hr. [ ] 7 day [ ] 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G G

PRESERVATIVE USED: None None None

DATE YEAR 2008	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	6010B (As, V, Ba)	8270C (BAP Equ.)	8082A (Aroclor-1254)						COMMENTS
2/28	1010	MPT05-SB01-04-022808	✓	3.5	4	So	G	2	X	X	X					1	Cool to 4°C
	1057	MPT05-SS02-01-022808	✓	0.5	1			1	X	X						2	
	1106	MPT05-SB02-04-022808	✓	3.5	4			2	X	X	X					3	
	1113	MPT05-SB02-06-022808	✓	5.5	6			2	X	X	X					4	
	1118	MPT05-SB02-08-022808	✓	7.5	8			2	X	X	X					5	
	1127	MPT05-SB02-10-022808	✓	9.5	10			2	X	X	X					6	
	1153	MPT05-SB03-04-022808	✓	3.5	4			2	X	X	X					7	
	1230	MPT05-SB03-06-022808	✓	5.5	6			2	X	X	X					8	
	1435	MPT05-SS04-01-022808	✓	0.5	1			1	X	X						9	
	1445	MPT05-SB04-04-022808	✓	3.5	4			2	X	X	X					10	
	1501	MPT05-SB04-06-022808	✓	5.5	6			2	X	X	X					11	
	1525	MPT05-SB04-08-022808	✓	7.5	8			2	X	X	X					12	
	1531	MPT05-SB04-10-022808	✓	9.5	10			2	X	X	X					13	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	3/3/08	1030	1. RECEIVED BY		
2. RELINQUISHED BY Fedex	3/4/08	1230	2. RECEIVED BY	3/4/08	1230
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

3

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

Tetra Tech/4602/20080304 27/3-9-08

TETRA TECH NUS, INC. — **CHAIN OF CUSTODY** — NUMBER 26290 — PAGE 2 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00203	NAVSTA Mayport	Shina Ballard	904-636-6125	GCAL / Liz Martin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		Donald Hardison	904-636-6125	7979 GSRI Avenue
		CARRIER/WAYBILL NUMBER		CITY, STATE
		8427 1834 3489		Baton Rouge, LA 70820

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: None None

DATE YEAR 2008	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	6010B (As, Ba)	8270C (BAP Equ.)							COMMENTS
2/28	1112	MPT04-SB02-05-022908 ✓		4.5	5	So	G	1	X	X						14	Cool to 4°C
	1121	MPT04-SB02-07-022908 ✓		6.5	7			1	X	X						15	
	1128	MPT04-SB02-09-022908 ✓		8.5	9			1	X	X						16	
	1135	MPT04-SB02-11-022908 ✓		10.5	11			1	X	X						17	
	1309	MPT04-SB03-05-022908 ✓		4.5	5			1	X	X						18	
	1314	MPT04-SB03-07-022908 ✓		6.5	7			1	X	X						19	
	1339	MPT04-SB03-09-022908 ✓		8.5	9			1	X	X						20	
	1405	MPT04-SB03-11-022908 ✓		10.5	11			1	X	X						21	
	1438	MPT04-SB04-05-022908 ✓		4.5	5			1	X	X						22	
	1442	MPT04-SB04-07-022908 ✓		6.5	7			1	X	X						23	
	1453	MPT04-SB04-09-022908 ✓		8.5	9			1	X	X						21	
	1508	MPT04-SB04-11-022908 ✓		10.5	11			1	X	X						25	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	3/3/08	1030	1. RECEIVED BY		
2. RELINQUISHED BY Fahey	3-4-08	1230	2. RECEIVED BY	3-4-08	1230
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

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FORM NO. TtNUS-001

Tetra Tech/4602/2008030427/3-4-08

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 26291 | **PAGE** 1 **OF** 1

PROJECT NO: 112G00203	FACILITY: NAVSTA Mayport	PROJECT MANAGER Shina Ballard	PHONE NUMBER 904-636-6125	LABORATORY NAME AND CONTACT: GCAL / Liz Martin
SAMPLERS (SIGNATURE) [signature]		FIELD OPERATIONS LEADER Donald Hardison	PHONE NUMBER 904-636-6125	ADDRESS 7979 GSRI Avenue
		CARRIER/WAYBILL NUMBER 8427 1834 3478		CITY, STATE Baton Rouge, LA 70820

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: None None

DATE YEAR 2008	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: 6010B (As)	8270C (BAP Equ.)							COMMENTS
3/3	1140	MPT05-SS05-01-030308	✓	0.5	1	SO	G	1	X	X						26	Cool to 4°C
	1157	MPT05-SS06-01-030308	✓	0.5	1			1	X	X						27	
	1214	MPT05-SS07-01-030308	✓	0.5	1			1	X	X						28	
	1226	MPT05-SS08-01-030308	✓	0.5	1			1	X	X						29	
	1243	MPT05-SS09-01-030308	✓	0.5	1			1	X	X						30	
	1259	MPT05-SS10-01-030308	✓	0.5	1			1	X	X						31	
	1311	MPT05-SS11-01-030308	✓	0.5	1			1	X	X						32	
	1328	MPT05-SS12-01-030308	✓	0.5	1			1	X	X						33	

1. RELINQUISHED BY [signature]	DATE 3/3/08	TIME 1500	1. RECEIVED BY	DATE / TIME
2. RELINQUISHED BY [signature] Fedex	DATE 3-4-08	TIME 1230	2. RECEIVED BY [signature]	DATE 3-4-08 / TIME 1230
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE / TIME

COMMENTS

3

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

HOLDTIME

SDG 208030427

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	MPT05-SS07-01-030308	20803042728	NM	3/3/2008	3/4/2008	3/7/2008	1	3	4
M	MG/KG	MPT05-SB03-06-022808	20803042708	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SB04-04-022808	20803042710	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SB04-06-022808	20803042711	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SB04-08-022808	20803042712	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SB04-10-022808	20803042713	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SB03-04-022808	20803042707	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SS06-01-030308	20803042727	NM	3/3/2008	3/4/2008	3/7/2008	1	3	4
M	MG/KG	MPT05-SS02-01-022808	20803042702	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SS08-01-030308	20803042729	NM	3/3/2008	3/4/2008	3/8/2008	1	4	5
M	MG/KG	MPT05-SS09-01-030308	20803042730	NM	3/3/2008	3/4/2008	3/8/2008	1	4	5
M	MG/KG	MPT05-SS10-01-030308	20803042731	NM	3/3/2008	3/4/2008	3/8/2008	1	4	5
M	MG/KG	MPT05-SS11-01-030308	20803042732	NM	3/3/2008	3/4/2008	3/8/2008	1	4	5
M	MG/KG	MPT05-SS12-01-030308	20803042733	NM	3/3/2008	3/4/2008	3/8/2008	1	4	5
M	MG/KG	MPT04-SB02-05-022908	20803042714	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	MPT05-SS04-01-022808	20803042709	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT04-SB02-11-022908	20803042717	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT04-SB02-07-022908	20803042715	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SS05-01-030308	20803042726	NM	3/3/2008	3/4/2008	3/7/2008	1	3	4
M	MG/KG	MPT04-SB02-09-022908	20803042716	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SB02-10-022808	20803042706	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT04-SB03-05-022908	20803042718	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT04-SB03-07-022908	20803042719	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT04-SB03-09-022908	20803042720	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT04-SB03-11-022908	20803042721	NM	2/28/2008	3/4/2008	3/7/2008	5	3	8
M	MG/KG	MPT04-SB04-05-022908	20803042722	NM	2/28/2008	3/4/2008	3/7/2008	5	3	8
M	MG/KG	MPT05-SB02-08-022808	20803042705	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT04-SB04-07-022908	20803042723	NM	2/28/2008	3/4/2008	3/7/2008	5	3	8
M	MG/KG	MPT04-SB04-09-022908	20803042724	NM	2/28/2008	3/4/2008	3/7/2008	5	3	8
M	MG/KG	MPT04-SB04-11-022908	20803042725	NM	2/28/2008	3/4/2008	3/7/2008	5	3	8
M	MG/KG	MPT05-SB01-04-022808	20803042701	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SB02-04-022808	20803042703	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SB02-06-022808	20803042704	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-48-1 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 1

Date Analyzed: 03/05/08 Time: 1046

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	9.78	98	mg/L	SW-846 6010B	P
Antimony	1.00	0.980	98	mg/L	SW-846 6010B	P
Arsenic	1.00	0.980	98	mg/L	SW-846 6010B	P
Barium	1.00	1.05	105	mg/L	SW-846 6010B	P
Beryllium	1.00	1.02	102	mg/L	SW-846 6010B	P
Boron	5.00	4.95	99	mg/L	SW-846 6010B	P
Cadmium	1.00	1.02	102	mg/L	SW-846 6010B	P
Calcium	10.0	10.2	102	mg/L	SW-846 6010B	P
Chromium	1.00	1.02	102	mg/L	SW-846 6010B	P
Cobalt	1.00	1.00	100	mg/L	SW-846 6010B	P
Copper	1.00	0.990	99	mg/L	SW-846 6010B	P
Iron	10.0	10.2	102	mg/L	SW-846 6010B	P
Lead	1.00	1.00	100	mg/L	SW-846 6010B	P
Lithium	1.00	1.03	103	mg/L	SW-846 6010B	P
Magnesium	10.0	10.4	104	mg/L	SW-846 6010B	P
Manganese	1.00	1.01	101	mg/L	SW-846 6010B	P
Molybdenum	1.00	0.990	99	mg/L	SW-846 6010B	P
Nickel	1.00	1.01	101	mg/L	SW-846 6010B	P
Potassium	10.0	10.3	103	mg/L	SW-846 6010B	P
Selenium	1.00	1.01	101	mg/L	SW-846 6010B	P
Silver	1.00	1.07	107	mg/L	SW-846 6010B	P
Sodium	10.0	10.0	100	mg/L	SW-846 6010B	P
Strontium	1.00	1.01	101	mg/L	SW-846 6010B	P
Thallium	1.00	1.01	101	mg/L	SW-846 6010B	P
Tin	1.00	1.04	104	mg/L	SW-846 6010B	P
Titanium	1.00	1.01	101	mg/L	SW-846 6010B	P
Vanadium	1.00	1.01	101	mg/L	SW-846 6010B	P
Zinc	1.00	1.01	101	mg/L	SW-846 6010B	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-50-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 1

Date Analyzed: 03/05/08 Time: 1114

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	0.200	0.220	111	mg/L	SW-846 6010B	P
Antimony	0.0600	0.0580	96	mg/L	SW-846 6010B	P
Barium	0.0100	0.0110	106	mg/L	SW-846 6010B	P
Beryllium	0.00500	0.00510	103	mg/L	SW-846 6010B	P
Boron	0.500	0.510	102	mg/L	SW-846 6010B	P
Cadmium	0.00500	0.00530	105	mg/L	SW-846 6010B	P
Calcium	0.100	0.110	114	mg/L	SW-846 6010B	P
Chromium	0.0100	0.0110	107	mg/L	SW-846 6010B	P
Cobalt	0.0100	0.0110	105	mg/L	SW-846 6010B	P
Copper	0.0100	0.00970	97	mg/L	SW-846 6010B	P
Iron	0.100	0.110	106	mg/L	SW-846 6010B	P
Lead	0.0150	0.0150	103	mg/L	SW-846 6010B	P
Lithium	0.0500	0.0550	109	mg/L	SW-846 6010B	P
Magnesium	0.100	0.110	109	mg/L	SW-846 6010B	P
Manganese	0.0150	0.0160	107	mg/L	SW-846 6010B	P
Molybdenum	0.0500	0.0500	101	mg/L	SW-846 6010B	P
Nickel	0.0400	0.0420	105	mg/L	SW-846 6010B	P
Potassium	0.500	0.540	107	mg/L	SW-846 6010B	P
Selenium	0.0400	0.0420	104	mg/L	SW-846 6010B	P
Silver	0.0100	0.0100	105	mg/L	SW-846 6010B	P
Sodium	1.00	1.06	106	mg/L	SW-846 6010B	P
Strontium	0.0500	0.0530	106	mg/L	SW-846 6010B	P
Thallium	0.0100	0.0150	149	mg/L	SW-846 6010B	P
Tin	0.100	0.100	101	mg/L	SW-846 6010B	P
Titanium	0.100	0.100	103	mg/L	SW-846 6010B	P
Vanadium	0.0200	0.0190	96	mg/L	SW-846 6010B	P
Zinc	0.0200	0.0220	108	mg/L	SW-846 6010B	P

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 208030427
Calibration Source: 173-47-9 INORGANIC VENTURES
Instrument ID: ICP6 ICAL ID: 1
Date Analyzed: 03/05/08 Time: 1138

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	0.0500	0.0490	99	mg/L	SW-846 6010B	P
Antimony	0.00500	0.00520	104	mg/L	SW-846 6010B	P
Arsenic	0.00500	0.00580	117	mg/L	SW-846 6010B	P
Barium	0.00500	0.00540	107	mg/L	SW-846 6010B	P
Beryllium	0.00080	0.000820	103	mg/L	SW-846 6010B	P
Boron	0.0300	0.0320	107	mg/L	SW-846 6010B	P
Cadmium	0.00020	0.000230	114	mg/L	SW-846 6010B	P
Calcium	0.0500	0.0480	97	mg/L	SW-846 6010B	P
Chromium	0.00500	0.00560	113	mg/L	SW-846 6010B	P
Cobalt	0.00100	0.00170	169	mg/L	SW-846 6010B	P
Copper	0.00500	0.00490	99	mg/L	SW-846 6010B	P
Iron	0.0400	0.0480	120	mg/L	SW-846 6010B	P
Lead	0.00300	0.00230	75	mg/L	SW-846 6010B	P
Magnesium	0.0500	0.0530	105	mg/L	SW-846 6010B	P
Manganese	0.0100	0.0110	110	mg/L	SW-846 6010B	P
Molybdenum	0.0200	0.0200	101	mg/L	SW-846 6010B	P
Nickel	0.00500	0.00570	113	mg/L	SW-846 6010B	P
Potassium	0.0500	-0.0150	-31	mg/L	SW-846 6010B	P
Selenium	0.00500	0.00580	115	mg/L	SW-846 6010B	P
Silver	0.00200	0.00190	97	mg/L	SW-846 6010B	P
Sodium	0.0500	0.0500	99	mg/L	SW-846 6010B	P
Strontium	0.0100	0.0110	112	mg/L	SW-846 6010B	P
Thallium	0.00200	0.00390	197	mg/L	SW-846 6010B	P
Tin	0.0250	0.0260	104	mg/L	SW-846 6010B	P
Vanadium	0.00500	0.00520	104	mg/L	SW-846 6010B	P
Zinc	0.0100	0.0110	106	mg/L	SW-846 6010B	P

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-49-6 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 1

Date Analyzed: 03/05/08 Time: 1204

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.11	102	mg/L	SW-846 6010B	P
Antimony	0.500	0.500	99	mg/L	SW-846 6010B	P
Arsenic	0.500	0.510	102	mg/L	SW-846 6010B	P
Barium	0.500	0.510	102	mg/L	SW-846 6010B	P
Beryllium	0.500	0.510	102	mg/L	SW-846 6010B	P
Boron	2.50	2.56	102	mg/L	SW-846 6010B	P
Cadmium	0.500	0.520	103	mg/L	SW-846 6010B	P
Calcium	5.00	5.14	103	mg/L	SW-846 6010B	P
Chromium	0.500	0.510	103	mg/L	SW-846 6010B	P
Cobalt	0.500	0.510	102	mg/L	SW-846 6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 6010B	P
Iron	5.00	5.22	104	mg/L	SW-846 6010B	P
Lead	0.500	0.510	102	mg/L	SW-846 6010B	P
Lithium	0.500	0.510	102	mg/L	SW-846 6010B	P
Magnesium	5.00	5.17	103	mg/L	SW-846 6010B	P
Manganese	0.500	0.510	102	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.510	101	mg/L	SW-846 6010B	P
Nickel	0.500	0.510	101	mg/L	SW-846 6010B	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010B	P
Selenium	0.500	0.500	101	mg/L	SW-846 6010B	P
Silicon	5.00	5.08	102	mg/L	SW-846 6010B	P
Silver	0.500	0.510	101	mg/L	SW-846 6010B	P
Sodium	20.0	20.3	102	mg/L	SW-846 6010B	P
Strontium	0.500	0.510	101	mg/L	SW-846 6010B	P
Thallium	0.500	0.520	104	mg/L	SW-846 6010B	P
Tin	0.500	0.510	102	mg/L	SW-846 6010B	P
Titanium	0.500	0.510	103	mg/L	SW-846 6010B	P
Vanadium	0.500	0.510	101	mg/L	SW-846 6010B	P
Zinc	0.500	0.510	103	mg/L	SW-846 6010B	P
Zirconium	0.500	0.510	101	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-49-6 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 1

Date Analyzed: 03/05/08 Time: 2352

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.35	107	mg/L	SW-846 6010B	P
Antimony	0.500	0.470	94	mg/L	SW-846 6010B	P
Arsenic	0.500	0.450	90	mg/L	SW-846 6010B	P
Barium	0.500	0.490	97	mg/L	SW-846 6010B	P
Beryllium	0.500	0.470	95	mg/L	SW-846 6010B	P
Boron	2.50	2.42	97	mg/L	SW-846 6010B	P
Cadmium	0.500	0.440	88	mg/L	SW-846 6010B	P
Calcium	5.00	4.89	98	mg/L	SW-846 6010B	P
Chromium	0.500	0.470	95	mg/L	SW-846 6010B	P
Cobalt	0.500	0.470	95	mg/L	SW-846 6010B	P
Copper	0.500	0.510	103	mg/L	SW-846 6010B	P
Iron	5.00	5.03	101	mg/L	SW-846 6010B	P
Lead	0.500	0.450	90	mg/L	SW-846 6010B	P
Lithium	0.500	0.560	111	mg/L	SW-846 6010B	P
Magnesium	5.00	5.00	100	mg/L	SW-846 6010B	P
Manganese	0.500	0.480	97	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.480	95	mg/L	SW-846 6010B	P
Nickel	0.500	0.450	91	mg/L	SW-846 6010B	P
Potassium	10.0	10.4	104	mg/L	SW-846 6010B	P
Selenium	0.500	0.440	89	mg/L	SW-846 6010B	P
Silicon	5.00	5.22	104	mg/L	SW-846 6010B	P
Silver	0.500	0.500	100	mg/L	SW-846 6010B	P
Sodium	20.0	23.0	115	mg/L	SW-846 6010B	P
Strontium	0.500	0.520	105	mg/L	SW-846 6010B	P
Thallium	0.500	0.490	98	mg/L	SW-846 6010B	P
Tin	0.500	0.450	90	mg/L	SW-846 6010B	P
Titanium	0.500	0.500	100	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	98	mg/L	SW-846 6010B	P
Zinc	0.500	0.470	95	mg/L	SW-846 6010B	P
Zirconium	0.500	0.480	97	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-49-6 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 1

Date Analyzed: 03/06/08 Time: 0104

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.53	111	mg/L	SW-846 6010B	P
Antimony	0.500	0.490	98	mg/L	SW-846 6010B	P
Arsenic	0.500	0.470	94	mg/L	SW-846 6010B	P
Barium	0.500	0.500	100	mg/L	SW-846 6010B	P
Beryllium	0.500	0.490	98	mg/L	SW-846 6010B	P
Boron	2.50	2.50	100	mg/L	SW-846 6010B	P
Cadmium	0.500	0.460	91	mg/L	SW-846 6010B	P
Calcium	5.00	5.06	101	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	98	mg/L	SW-846 6010B	P
Cobalt	0.500	0.490	98	mg/L	SW-846 6010B	P
Copper	0.500	0.530	106	mg/L	SW-846 6010B	P
Iron	5.00	5.36	107	mg/L	SW-846 6010B	P
Lead	0.500	0.470	93	mg/L	SW-846 6010B	P
Lithium	0.500	0.560	113	mg/L	SW-846 6010B	P
Magnesium	5.00	5.16	103	mg/L	SW-846 6010B	P
Manganese	0.500	0.500	100	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	98	mg/L	SW-846 6010B	P
Nickel	0.500	0.470	94	mg/L	SW-846 6010B	P
Potassium	10.0	10.6	106	mg/L	SW-846 6010B	P
Selenium	0.500	0.450	91	mg/L	SW-846 6010B	P
Silicon	5.00	5.37	107	mg/L	SW-846 6010B	P
Silver	0.500	0.520	104	mg/L	SW-846 6010B	P
Sodium	20.0	22.0	110	mg/L	SW-846 6010B	P
Strontium	0.500	0.530	107	mg/L	SW-846 6010B	P
Thallium	0.500	0.500	101	mg/L	SW-846 6010B	P
Tin	0.500	0.470	93	mg/L	SW-846 6010B	P
Titanium	0.500	0.520	104	mg/L	SW-846 6010B	P
Vanadium	0.500	0.510	102	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	99	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	101	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-49-6 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 1

Date Analyzed: 03/06/08 Time: 0213

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Copper	0.500	0.520	105	mg/L	SW-846 6010B	P
Iron	5.00	5.30	106	mg/L	SW-846 6010B	P
Lead	0.500	0.450	90	mg/L	SW-846 6010B	P
Lithium	0.500	0.570	113	mg/L	SW-846 6010B	P
Magnesium	5.00	5.19	104	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	97	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.480	96	mg/L	SW-846 6010B	P
Nickel	0.500	0.460	91	mg/L	SW-846 6010B	P
Potassium	10.0	10.6	106	mg/L	SW-846 6010B	P
Selenium	0.500	0.450	90	mg/L	SW-846 6010B	P
Silicon	5.00	5.38	108	mg/L	SW-846 6010B	P
Silver	0.500	0.510	103	mg/L	SW-846 6010B	P
Sodium	20.0	22.0	110	mg/L	SW-846 6010B	P
Strontium	0.500	0.540	108	mg/L	SW-846 6010B	P
Thallium	0.500	0.490	98	mg/L	SW-846 6010B	P
Tin	0.500	0.450	90	mg/L	SW-846 6010B	P
Titanium	0.500	0.520	103	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	100	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	97	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	100	mg/L	SW-846 6010B	P
Aluminum	5.00	5.59	112	mg/L	SW-846 6010B	P
Antimony	0.500	0.480	97	mg/L	SW-846 6010B	P
Arsenic	0.500	0.460	93	mg/L	SW-846 6010B	P
Barium	0.500	0.490	97	mg/L	SW-846 6010B	P
Beryllium	0.500	0.480	97	mg/L	SW-846 6010B	P
Boron	2.50	2.45	98	mg/L	SW-846 6010B	P
Cadmium	0.500	0.440	88	mg/L	SW-846 6010B	P
Calcium	5.00	5.12	102	mg/L	SW-846 6010B	P
Chromium	0.500	0.480	96	mg/L	SW-846 6010B	P
Cobalt	0.500	0.480	96	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-48-1 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 2

Date Analyzed: 03/06/08 Time: 1033

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	9.72	97	mg/L	SW-846 6010B	P
Antimony	1.00	0.980	98	mg/L	SW-846 6010B	P
Arsenic	1.00	0.970	97	mg/L	SW-846 6010B	P
Barium	1.00	1.07	107	mg/L	SW-846 6010B	P
Beryllium	1.00	1.01	101	mg/L	SW-846 6010B	P
Boron	5.00	5.28	106	mg/L	SW-846 6010B	P
Cadmium	1.00	1.04	104	mg/L	SW-846 6010B	P
Calcium	10.0	10.0	100	mg/L	SW-846 6010B	P
Chromium	1.00	1.03	103	mg/L	SW-846 6010B	P
Cobalt	1.00	0.990	99	mg/L	SW-846 6010B	P
Copper	1.00	1.00	100	mg/L	SW-846 6010B	P
Iron	10.0	9.99	100	mg/L	SW-846 6010B	P
Lead	1.00	1.00	100	mg/L	SW-846 6010B	P
Lithium	1.00	1.01	101	mg/L	SW-846 6010B	P
Magnesium	10.0	10.2	102	mg/L	SW-846 6010B	P
Manganese	1.00	1.02	102	mg/L	SW-846 6010B	P
Molybdenum	1.00	0.990	99	mg/L	SW-846 6010B	P
Nickel	1.00	1.01	101	mg/L	SW-846 6010B	P
Potassium	10.0	10.1	101	mg/L	SW-846 6010B	P
Selenium	1.00	1.01	101	mg/L	SW-846 6010B	P
Silver	1.00	1.08	108	mg/L	SW-846 6010B	P
Sodium	10.0	9.92	99	mg/L	SW-846 6010B	P
Strontium	1.00	0.990	99	mg/L	SW-846 6010B	P
Thallium	1.00	1.01	101	mg/L	SW-846 6010B	P
Tin	1.00	1.04	104	mg/L	SW-846 6010B	P
Titanium	1.00	1.01	101	mg/L	SW-846 6010B	P
Vanadium	1.00	1.02	102	mg/L	SW-846 6010B	P
Zinc	1.00	1.02	102	mg/L	SW-846 6010B	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-46-3 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 2

Date Analyzed: 03/06/08 Time: 1106

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Nickel	0.0400	0.0430	108	mg/L	SW-846 6010B	P
Potassium	0.500	0.560	112	mg/L	SW-846 6010B	P
Selenium	0.0400	0.0430	108	mg/L	SW-846 6010B	P
Silver	0.0100	0.0110	108	mg/L	SW-846 6010B	P
Sodium	1.00	1.13	113	mg/L	SW-846 6010B	P
Strontium	0.0500	0.0560	112	mg/L	SW-846 6010B	P
Thallium	0.0100	0.00990	99	mg/L	SW-846 6010B	P
Tin	0.100	0.110	107	mg/L	SW-846 6010B	P
Titanium	0.100	0.110	109	mg/L	SW-846 6010B	P
Vanadium	0.0200	0.0210	107	mg/L	SW-846 6010B	P
Zinc	0.0200	0.0230	113	mg/L	SW-846 6010B	P
Aluminum	0.200	0.230	116	mg/L	SW-846 6010B	P
Antimony	0.0600	0.0630	105	mg/L	SW-846 6010B	P
Arsenic	0.0100	0.00940	94	mg/L	SW-846 6010B	P
Barium	0.0100	0.0110	115	mg/L	SW-846 6010B	P
Beryllium	0.00500	0.00550	110	mg/L	SW-846 6010B	P
Boron	0.500	0.520	104	mg/L	SW-846 6010B	P
Cadmium	0.00500	0.00560	111	mg/L	SW-846 6010B	P
Calcium	0.100	0.140	145	mg/L	SW-846 6010B	P
Chromium	0.0100	0.0120	115	mg/L	SW-846 6010B	P
Cobalt	0.0100	0.0110	106	mg/L	SW-846 6010B	P
Copper	0.0100	0.00890	89	mg/L	SW-846 6010B	P
Iron	0.100	0.110	106	mg/L	SW-846 6010B	P
Lead	0.0150	0.0150	101	mg/L	SW-846 6010B	P
Lithium	0.0500	0.0570	115	mg/L	SW-846 6010B	P
Magnesium	0.100	0.110	110	mg/L	SW-846 6010B	P
Manganese	0.0150	0.0180	118	mg/L	SW-846 6010B	P
Molybdenum	0.0500	0.0510	103	mg/L	SW-846 6010B	P

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-51-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 2

Date Analyzed: 03/06/08 Time: 1228

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.01	100	mg/L	SW-846 6010B	P
Antimony	0.500	0.490	98	mg/L	SW-846 6010B	P
Arsenic	0.500	0.510	101	mg/L	SW-846 6010B	P
Barium	0.500	0.500	100	mg/L	SW-846 6010B	P
Beryllium	0.500	0.510	101	mg/L	SW-846 6010B	P
Boron	2.50	2.48	99	mg/L	SW-846 6010B	P
Cadmium	0.500	0.510	101	mg/L	SW-846 6010B	P
Calcium	5.00	5.09	102	mg/L	SW-846 6010B	P
Chromium	0.500	0.510	101	mg/L	SW-846 6010B	P
Cobalt	0.500	0.500	100	mg/L	SW-846 6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 6010B	P
Iron	5.00	5.08	102	mg/L	SW-846 6010B	P
Lead	0.500	0.490	99	mg/L	SW-846 6010B	P
Lithium	0.500	0.500	100	mg/L	SW-846 6010B	P
Magnesium	5.00	5.05	101	mg/L	SW-846 6010B	P
Manganese	0.500	0.500	100	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	98	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	101	mg/L	SW-846 6010B	P
Potassium	10.0	10.0	100	mg/L	SW-846 6010B	P
Selenium	0.500	0.490	99	mg/L	SW-846 6010B	P
Silicon	5.00	5.03	101	mg/L	SW-846 6010B	P
Silver	0.500	0.500	101	mg/L	SW-846 6010B	P
Sodium	20.0	20.2	101	mg/L	SW-846 6010B	P
Strontium	0.500	0.500	101	mg/L	SW-846 6010B	P
Thallium	0.500	0.500	101	mg/L	SW-846 6010B	P
Tin	0.500	0.500	100	mg/L	SW-846 6010B	P
Titanium	0.500	0.510	101	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	100	mg/L	SW-846 6010B	P
Zinc	0.500	0.510	101	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	101	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-51-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 2

Date Analyzed: 03/06/08 Time: 2042

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.17	103	mg/L	SW-846 6010B	P
Antimony	0.500	0.500	99	mg/L	SW-846 6010B	P
Arsenic	0.500	0.510	102	mg/L	SW-846 6010B	P
Barium	0.500	0.530	106	mg/L	SW-846 6010B	P
Beryllium	0.500	0.520	103	mg/L	SW-846 6010B	P
Boron	2.50	2.50	100	mg/L	SW-846 6010B	P
Cadmium	0.500	0.510	103	mg/L	SW-846 6010B	P
Calcium	5.00	5.17	103	mg/L	SW-846 6010B	P
Chromium	0.500	0.510	103	mg/L	SW-846 6010B	P
Cobalt	0.500	0.530	106	mg/L	SW-846 6010B	P
Copper	0.500	0.530	106	mg/L	SW-846 6010B	P
Iron	5.00	5.22	104	mg/L	SW-846 6010B	P
Lead	0.500	0.500	100	mg/L	SW-846 6010B	P
Lithium	0.500	0.510	102	mg/L	SW-846 6010B	P
Magnesium	5.00	5.13	103	mg/L	SW-846 6010B	P
Manganese	0.500	0.520	104	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	101	mg/L	SW-846 6010B	P
Nickel	0.500	0.510	102	mg/L	SW-846 6010B	P
Potassium	10.0	9.89	99	mg/L	SW-846 6010B	P
Selenium	0.500	0.470	94	mg/L	SW-846 6010B	P
Silicon	5.00	5.06	101	mg/L	SW-846 6010B	P
Silver	0.500	0.520	103	mg/L	SW-846 6010B	P
Sodium	20.0	21.0	105	mg/L	SW-846 6010B	P
Strontium	0.500	0.520	103	mg/L	SW-846 6010B	P
Thallium	0.500	0.530	106	mg/L	SW-846 6010B	P
Tin	0.500	0.500	101	mg/L	SW-846 6010B	P
Titanium	0.500	0.520	104	mg/L	SW-846 6010B	P
Vanadium	0.500	0.520	105	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	98	mg/L	SW-846 6010B	P
Zirconium	0.500	0.510	101	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-51-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 2

Date Analyzed: 03/06/08 Time: 2156

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.19	104	mg/L	SW-846 6010B	P
Antimony	0.500	0.510	101	mg/L	SW-846 6010B	P
Arsenic	0.500	0.520	105	mg/L	SW-846 6010B	P
Barium	0.500	0.540	108	mg/L	SW-846 6010B	P
Beryllium	0.500	0.530	106	mg/L	SW-846 6010B	P
Boron	2.50	2.53	101	mg/L	SW-846 6010B	P
Cadmium	0.500	0.520	105	mg/L	SW-846 6010B	P
Calcium	5.00	5.14	103	mg/L	SW-846 6010B	P
Chromium	0.500	0.530	105	mg/L	SW-846 6010B	P
Cobalt	0.500	0.550	110	mg/L	SW-846 6010B	P
Copper	0.500	0.540	109	mg/L	SW-846 6010B	P
Iron	5.00	5.24	105	mg/L	SW-846 6010B	P
Lead	0.500	0.510	102	mg/L	SW-846 6010B	P
Lithium	0.500	0.510	102	mg/L	SW-846 6010B	P
Magnesium	5.00	5.11	102	mg/L	SW-846 6010B	P
Manganese	0.500	0.540	107	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.510	102	mg/L	SW-846 6010B	P
Nickel	0.500	0.520	104	mg/L	SW-846 6010B	P
Potassium	10.0	9.92	99	mg/L	SW-846 6010B	P
Selenium	0.500	0.470	94	mg/L	SW-846 6010B	P
Silicon	5.00	5.06	101	mg/L	SW-846 6010B	P
Silver	0.500	0.530	105	mg/L	SW-846 6010B	P
Sodium	20.0	21.1	105	mg/L	SW-846 6010B	P
Strontium	0.500	0.520	104	mg/L	SW-846 6010B	P
Thallium	0.500	0.550	109	mg/L	SW-846 6010B	P
Tin	0.500	0.510	103	mg/L	SW-846 6010B	P
Titanium	0.500	0.530	107	mg/L	SW-846 6010B	P
Vanadium	0.500	0.540	108	mg/L	SW-846 6010B	P
Zinc	0.500	0.500	99	mg/L	SW-846 6010B	P
Zirconium	0.500	0.520	104	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-51-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 2

Date Analyzed: 03/06/08 Time: 2306

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.26	105	mg/L	SW-846 6010B	P
Antimony	0.500	0.490	97	mg/L	SW-846 6010B	P
Arsenic	0.500	0.510	101	mg/L	SW-846 6010B	P
Barium	0.500	0.520	104	mg/L	SW-846 6010B	P
Beryllium	0.500	0.510	101	mg/L	SW-846 6010B	P
Boron	2.50	2.42	97	mg/L	SW-846 6010B	P
Cadmium	0.500	0.500	101	mg/L	SW-846 6010B	P
Calcium	5.00	5.25	105	mg/L	SW-846 6010B	P
Chromium	0.500	0.500	100	mg/L	SW-846 6010B	P
Cobalt	0.500	0.520	105	mg/L	SW-846 6010B	P
Copper	0.500	0.520	103	mg/L	SW-846 6010B	P
Iron	5.00	5.28	106	mg/L	SW-846 6010B	P
Lead	0.500	0.490	99	mg/L	SW-846 6010B	P
Lithium	0.500	0.520	103	mg/L	SW-846 6010B	P
Magnesium	5.00	5.18	104	mg/L	SW-846 6010B	P
Manganese	0.500	0.510	102	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	98	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	100	mg/L	SW-846 6010B	P
Potassium	10.0	9.99	100	mg/L	SW-846 6010B	P
Selenium	0.500	0.460	92	mg/L	SW-846 6010B	P
Silicon	5.00	5.10	102	mg/L	SW-846 6010B	P
Silver	0.500	0.510	101	mg/L	SW-846 6010B	P
Sodium	20.0	21.1	106	mg/L	SW-846 6010B	P
Strontium	0.500	0.530	106	mg/L	SW-846 6010B	P
Thallium	0.500	0.520	104	mg/L	SW-846 6010B	P
Tin	0.500	0.490	99	mg/L	SW-846 6010B	P
Titanium	0.500	0.510	102	mg/L	SW-846 6010B	P
Vanadium	0.500	0.510	102	mg/L	SW-846 6010B	P
Zinc	0.500	0.480	96	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	100	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 208030427
Calibration Source: 173-51-2 CPI/EXAXOL
Instrument ID: ICP6 ICAL ID: 3
Date Analyzed: 03/07/08 Time: 1101

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	9.83	98	mg/L	SW-846 6010B	P
Antimony	1.00	0.990	99	mg/L	SW-846 6010B	P
Arsenic	1.00	0.960	96	mg/L	SW-846 6010B	P
Barium	1.00	1.03	103	mg/L	SW-846 6010B	P
Beryllium	1.00	1.02	102	mg/L	SW-846 6010B	P
Boron	5.00	5.06	101	mg/L	SW-846 6010B	P
Cadmium	1.00	1.03	103	mg/L	SW-846 6010B	P
Calcium	10.0	10.0	100	mg/L	SW-846 6010B	P
Chromium	1.00	1.02	102	mg/L	SW-846 6010B	P
Cobalt	1.00	1.01	101	mg/L	SW-846 6010B	P
Copper	1.00	1.00	100	mg/L	SW-846 6010B	P
Iron	10.0	10.0	100	mg/L	SW-846 6010B	P
Lead	1.00	1.02	102	mg/L	SW-846 6010B	P
Lithium	1.00	1.02	102	mg/L	SW-846 6010B	P
Magnesium	10.0	10.4	104	mg/L	SW-846 6010B	P
Manganese	1.00	1.01	101	mg/L	SW-846 6010B	P
Molybdenum	1.00	1.01	101	mg/L	SW-846 6010B	P
Nickel	1.00	1.02	102	mg/L	SW-846 6010B	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010B	P
Selenium	1.00	1.03	103	mg/L	SW-846 6010B	P
Silver	1.00	1.05	105	mg/L	SW-846 6010B	P
Sodium	10.0	9.77	98	mg/L	SW-846 6010B	P
Strontium	1.00	0.990	99	mg/L	SW-846 6010B	P
Thallium	1.00	1.03	103	mg/L	SW-846 6010B	P
Tin	1.00	1.04	104	mg/L	SW-846 6010B	P
Titanium	1.00	0.990	99	mg/L	SW-846 6010B	P
Vanadium	1.00	1.01	101	mg/L	SW-846 6010B	P
Zinc	1.00	1.01	101	mg/L	SW-846 6010B	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 208030427
Calibration Source: 173-52-1 INORGANIC VENTURES
Instrument ID: ICP6 ICAL ID: 3
Date Analyzed: 03/07/08 Time: 1128

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	0.200	0.210	103	mg/L	SW-846 6010B	P
Antimony	0.0600	0.0630	105	mg/L	SW-846 6010B	P
Arsenic	0.0100	0.0110	111	mg/L	SW-846 6010B	P
Barium	0.0100	0.0110	107	mg/L	SW-846 6010B	P
Beryllium	0.00500	0.00520	104	mg/L	SW-846 6010B	P
Boron	0.500	0.510	101	mg/L	SW-846 6010B	P
Cadmium	0.00500	0.00540	109	mg/L	SW-846 6010B	P
Calcium	0.100	0.140	136	mg/L	SW-846 6010B	P
Chromium	0.0100	0.0110	109	mg/L	SW-846 6010B	P
Cobalt	0.0100	0.0110	108	mg/L	SW-846 6010B	P
Copper	0.0100	0.0100	102	mg/L	SW-846 6010B	P
Iron	0.100	0.0960	96	mg/L	SW-846 6010B	P
Lead	0.0150	0.0160	104	mg/L	SW-846 6010B	P
Lithium	0.0500	0.0530	106	mg/L	SW-846 6010B	P
Magnesium	0.100	0.110	113	mg/L	SW-846 6010B	P
Manganese	0.0150	0.0190	128	mg/L	SW-846 6010B	P
Molybdenum	0.0500	0.0510	102	mg/L	SW-846 6010B	P
Nickel	0.0400	0.0430	108	mg/L	SW-846 6010B	P
Potassium	0.500	0.460	92	mg/L	SW-846 6010B	P
Selenium	0.0400	0.0330	83	mg/L	SW-846 6010B	P
Silver	0.0100	0.0120	122	mg/L	SW-846 6010B	P
Sodium	1.00	0.790	79	mg/L	SW-846 6010B	P
Strontium	0.0500	0.0530	106	mg/L	SW-846 6010B	P
Thallium	0.0100	0.00930	93	mg/L	SW-846 6010B	P
Tin	0.100	0.110	107	mg/L	SW-846 6010B	P
Titanium	0.100	0.100	103	mg/L	SW-846 6010B	P
Vanadium	0.0200	0.0210	106	mg/L	SW-846 6010B	P
Zinc	0.0200	0.0260	128	mg/L	SW-846 6010B	P

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 208030427
Calibration Source: 173-51-1 INORGANIC VENTURES
Instrument ID: ICP6 ICAL ID: 3
Date Analyzed: 03/07/08 Time: 1214

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.05	101	mg/L	SW-846 6010B	P
Antimony	0.500	0.500	99	mg/L	SW-846 6010B	P
Arsenic	0.500	0.510	102	mg/L	SW-846 6010B	P
Barium	0.500	0.500	100	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	100	mg/L	SW-846 6010B	P
Boron	2.50	2.50	100	mg/L	SW-846 6010B	P
Cadmium	0.500	0.500	100	mg/L	SW-846 6010B	P
Calcium	5.00	5.04	101	mg/L	SW-846 6010B	P
Chromium	0.500	0.500	101	mg/L	SW-846 6010B	P
Cobalt	0.500	0.500	101	mg/L	SW-846 6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 6010B	P
Iron	5.00	5.06	101	mg/L	SW-846 6010B	P
Lead	0.500	0.500	101	mg/L	SW-846 6010B	P
Lithium	0.500	0.500	101	mg/L	SW-846 6010B	P
Magnesium	5.00	5.10	102	mg/L	SW-846 6010B	P
Manganese	0.500	0.500	101	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	101	mg/L	SW-846 6010B	P
Nickel	0.500	0.510	101	mg/L	SW-846 6010B	P
Potassium	10.0	10.1	101	mg/L	SW-846 6010B	P
Selenium	0.500	0.500	101	mg/L	SW-846 6010B	P
Silicon	5.00	5.02	100	mg/L	SW-846 6010B	P
Silver	0.500	0.500	101	mg/L	SW-846 6010B	P
Sodium	20.0	20.1	101	mg/L	SW-846 6010B	P
Strontium	0.500	0.510	102	mg/L	SW-846 6010B	P
Thallium	0.500	0.510	102	mg/L	SW-846 6010B	P
Tin	0.500	0.510	101	mg/L	SW-846 6010B	P
Titanium	0.500	0.500	101	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	100	mg/L	SW-846 6010B	P
Zinc	0.500	0.500	100	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	101	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 208030427
Calibration Source: 173-51-1 INORGANIC VENTURES
Instrument ID: ICP6 ICAL ID: 3
Date Analyzed: 03/07/08 Time: 2217

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.34	107	mg/L	SW-846 6010B	P
Antimony	0.500	0.470	94	mg/L	SW-846 6010B	P
Arsenic	0.500	0.450	90	mg/L	SW-846 6010B	P
Barium	0.500	0.480	96	mg/L	SW-846 6010B	P
Beryllium	0.500	0.490	98	mg/L	SW-846 6010B	P
Boron	2.50	2.43	97	mg/L	SW-846 6010B	P
Cadmium	0.500	0.450	91	mg/L	SW-846 6010B	P
Calcium	5.00	5.21	104	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	98	mg/L	SW-846 6010B	P
Cobalt	0.500	0.450	90	mg/L	SW-846 6010B	P
Copper	0.500	0.480	96	mg/L	SW-846 6010B	P
Iron	5.00	5.05	101	mg/L	SW-846 6010B	P
Lead	0.500	0.470	93	mg/L	SW-846 6010B	P
Lithium	0.500	0.540	108	mg/L	SW-846 6010B	P
Magnesium	5.00	5.21	104	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	97	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	98	mg/L	SW-846 6010B	P
Nickel	0.500	0.480	95	mg/L	SW-846 6010B	P
Potassium	10.0	10.7	107	mg/L	SW-846 6010B	P
Selenium	0.500	0.470	95	mg/L	SW-846 6010B	P
Silicon	5.00	5.17	103	mg/L	SW-846 6010B	P
Silver	0.500	0.500	100	mg/L	SW-846 6010B	P
Sodium	20.0	20.6	103	mg/L	SW-846 6010B	P
Strontium	0.500	0.540	108	mg/L	SW-846 6010B	P
Thallium	0.500	0.470	93	mg/L	SW-846 6010B	P
Tin	0.500	0.470	93	mg/L	SW-846 6010B	P
Titanium	0.500	0.510	101	mg/L	SW-846 6010B	P
Vanadium	0.500	0.480	96	mg/L	SW-846 6010B	P
Zinc	0.500	0.500	100	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	98	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-51-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 03/07/08 Time: 2328

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.41	108	mg/L	SW-846 6010B	P
Antimony	0.500	0.470	95	mg/L	SW-846 6010B	P
Arsenic	0.500	0.460	91	mg/L	SW-846 6010B	P
Barium	0.500	0.490	97	mg/L	SW-846 6010B	P
Beryllium	0.500	0.490	99	mg/L	SW-846 6010B	P
Boron	2.50	2.44	98	mg/L	SW-846 6010B	P
Cadmium	0.500	0.460	91	mg/L	SW-846 6010B	P
Calcium	5.00	5.30	106	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	99	mg/L	SW-846 6010B	P
Cobalt	0.500	0.450	90	mg/L	SW-846 6010B	P
Copper	0.500	0.480	97	mg/L	SW-846 6010B	P
Iron	5.00	5.15	103	mg/L	SW-846 6010B	P
Lead	0.500	0.480	95	mg/L	SW-846 6010B	P
Lithium	0.500	0.550	110	mg/L	SW-846 6010B	P
Magnesium	5.00	5.27	105	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	98	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	99	mg/L	SW-846 6010B	P
Nickel	0.500	0.480	97	mg/L	SW-846 6010B	P
Potassium	10.0	10.9	109	mg/L	SW-846 6010B	P
Selenium	0.500	0.490	97	mg/L	SW-846 6010B	P
Silicon	5.00	5.25	105	mg/L	SW-846 6010B	P
Silver	0.500	0.510	101	mg/L	SW-846 6010B	P
Sodium	20.0	20.8	104	mg/L	SW-846 6010B	P
Strontium	0.500	0.550	110	mg/L	SW-846 6010B	P
Thallium	0.500	0.470	94	mg/L	SW-846 6010B	P
Tin	0.500	0.470	94	mg/L	SW-846 6010B	P
Titanium	0.500	0.510	102	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	97	mg/L	SW-846 6010B	P
Zinc	0.500	0.510	101	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	99	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-51-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 3

Date Analyzed: 03/08/08 Time: 0039

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.41	108	mg/L	SW-846 6010B	P
Antimony	0.500	0.470	95	mg/L	SW-846 6010B	P
Arsenic	0.500	0.450	91	mg/L	SW-846 6010B	P
Barium	0.500	0.480	97	mg/L	SW-846 6010B	P
Beryllium	0.500	0.490	98	mg/L	SW-846 6010B	P
Boron	2.50	2.41	96	mg/L	SW-846 6010B	P
Cadmium	0.500	0.450	90	mg/L	SW-846 6010B	P
Calcium	5.00	5.29	106	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	98	mg/L	SW-846 6010B	P
Cobalt	0.500	0.450	89	mg/L	SW-846 6010B	P
Copper	0.500	0.490	97	mg/L	SW-846 6010B	P
Iron	5.00	5.07	101	mg/L	SW-846 6010B	P
Lead	0.500	0.470	94	mg/L	SW-846 6010B	P
Lithium	0.500	0.550	110	mg/L	SW-846 6010B	P
Magnesium	5.00	5.28	106	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	98	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	99	mg/L	SW-846 6010B	P
Nickel	0.500	0.480	96	mg/L	SW-846 6010B	P
Potassium	10.0	10.8	108	mg/L	SW-846 6010B	P
Selenium	0.500	0.480	96	mg/L	SW-846 6010B	P
Silicon	5.00	5.22	104	mg/L	SW-846 6010B	P
Silver	0.500	0.510	101	mg/L	SW-846 6010B	P
Sodium	20.0	20.7	103	mg/L	SW-846 6010B	P
Strontium	0.500	0.550	110	mg/L	SW-846 6010B	P
Thallium	0.500	0.470	94	mg/L	SW-846 6010B	P
Tin	0.500	0.470	93	mg/L	SW-846 6010B	P
Titanium	0.500	0.510	101	mg/L	SW-846 6010B	P
Vanadium	0.500	0.480	97	mg/L	SW-846 6010B	P
Zinc	0.500	0.510	101	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	99	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-51-2 CPI/EXAXOL Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 03/08/08 Time: 0649

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	9.60	96	mg/L	SW-846 6010B	P
Antimony	1.00	0.960	96	mg/L	SW-846 6010B	P
Arsenic	1.00	0.920	92	mg/L	SW-846 6010B	P
Barium	1.00	0.990	99	mg/L	SW-846 6010B	P
Beryllium	1.00	0.970	97	mg/L	SW-846 6010B	P
Boron	5.00	5.04	101	mg/L	SW-846 6010B	P
Cadmium	1.00	0.970	97	mg/L	SW-846 6010B	P
Calcium	10.0	9.55	95	mg/L	SW-846 6010B	P
Chromium	1.00	0.970	97	mg/L	SW-846 6010B	P
Cobalt	1.00	0.970	97	mg/L	SW-846 6010B	P
Copper	1.00	0.950	95	mg/L	SW-846 6010B	P
Iron	10.0	9.66	97	mg/L	SW-846 6010B	P
Lead	1.00	0.980	98	mg/L	SW-846 6010B	P
Lithium	1.00	0.980	98	mg/L	SW-846 6010B	P
Magnesium	10.0	9.95	99	mg/L	SW-846 6010B	P
Manganese	1.00	0.970	97	mg/L	SW-846 6010B	P
Molybdenum	1.00	0.980	98	mg/L	SW-846 6010B	P
Nickel	1.00	0.980	98	mg/L	SW-846 6010B	P
Potassium	10.0	9.83	98	mg/L	SW-846 6010B	P
Selenium	1.00	0.980	98	mg/L	SW-846 6010B	P
Silver	1.00	1.01	101	mg/L	SW-846 6010B	P
Sodium	10.0	9.54	95	mg/L	SW-846 6010B	P
Strontium	1.00	0.960	96	mg/L	SW-846 6010B	P
Thallium	1.00	1.00	100	mg/L	SW-846 6010B	P
Tin	1.00	1.00	100	mg/L	SW-846 6010B	P
Titanium	1.00	0.960	96	mg/L	SW-846 6010B	P
Vanadium	1.00	0.970	97	mg/L	SW-846 6010B	P
Zinc	1.00	0.950	95	mg/L	SW-846 6010B	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 208030427
Calibration Source: 173-52-1 INORGANIC VENTURES
Instrument ID: ICP6 ICAL ID: 4
Date Analyzed: 03/08/08 Time: 0717

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	0.200	0.190	95	mg/L	SW-846 6010B	P
Antimony	0.0600	0.0560	93	mg/L	SW-846 6010B	P
Arsenic	0.0100	0.00850	85	mg/L	SW-846 6010B	P
Barium	0.0100	0.00920	92	mg/L	SW-846 6010B	P
Beryllium	0.00500	0.00450	91	mg/L	SW-846 6010B	P
Boron	0.500	0.510	102	mg/L	SW-846 6010B	P
Cadmium	0.00500	0.00470	94	mg/L	SW-846 6010B	P
Calcium	0.100	0.100	103	mg/L	SW-846 6010B	P
Chromium	0.0100	0.00930	93	mg/L	SW-846 6010B	P
Cobalt	0.0100	0.00960	96	mg/L	SW-846 6010B	P
Copper	0.0100	0.00830	83	mg/L	SW-846 6010B	P
Iron	0.100	0.0940	94	mg/L	SW-846 6010B	P
Lead	0.0150	0.0120	82	mg/L	SW-846 6010B	P
Lithium	0.0500	0.0490	98	mg/L	SW-846 6010B	P
Magnesium	0.100	0.0980	98	mg/L	SW-846 6010B	P
Manganese	0.0150	0.0140	93	mg/L	SW-846 6010B	P
Molybdenum	0.0500	0.0480	97	mg/L	SW-846 6010B	P
Nickel	0.0400	0.0360	91	mg/L	SW-846 6010B	P
Potassium	0.500	0.540	107	mg/L	SW-846 6010B	P
Selenium	0.0400	0.0330	83	mg/L	SW-846 6010B	P
Silver	0.0100	0.00920	92	mg/L	SW-846 6010B	P
Sodium	1.00	0.940	94	mg/L	SW-846 6010B	P
Strontium	0.0500	0.0470	94	mg/L	SW-846 6010B	P
Thallium	0.0100	0.0110	110	mg/L	SW-846 6010B	P
Tin	0.100	0.0970	97	mg/L	SW-846 6010B	P
Titanium	0.100	0.0960	96	mg/L	SW-846 6010B	P
Vanadium	0.0200	0.0180	91	mg/L	SW-846 6010B	P
Zinc	0.0200	0.0180	90	mg/L	SW-846 6010B	P

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-52-2 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 03/08/08 Time: 0743

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.13	103	mg/L	SW-846 6010B	P
Antimony	0.500	0.490	98	mg/L	SW-846 6010B	P
Arsenic	0.500	0.500	100	mg/L	SW-846 6010B	P
Barium	0.500	0.490	98	mg/L	SW-846 6010B	P
Beryllium	0.500	0.490	98	mg/L	SW-846 6010B	P
Boron	2.50	2.46	98	mg/L	SW-846 6010B	P
Cadmium	0.500	0.490	98	mg/L	SW-846 6010B	P
Calcium	5.00	5.09	102	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	99	mg/L	SW-846 6010B	P
Cobalt	0.500	0.500	99	mg/L	SW-846 6010B	P
Copper	0.500	0.490	97	mg/L	SW-846 6010B	P
Iron	5.00	5.18	104	mg/L	SW-846 6010B	P
Lead	0.500	0.500	100	mg/L	SW-846 6010B	P
Lithium	0.500	0.530	105	mg/L	SW-846 6010B	P
Magnesium	5.00	5.10	102	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	98	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	101	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	100	mg/L	SW-846 6010B	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010B	P
Selenium	0.500	0.500	100	mg/L	SW-846 6010B	P
Silicon	5.00	4.92	98	mg/L	SW-846 6010B	P
Silver	0.500	0.490	99	mg/L	SW-846 6010B	P
Sodium	20.0	20.7	104	mg/L	SW-846 6010B	P
Strontium	0.500	0.520	104	mg/L	SW-846 6010B	P
Thallium	0.500	0.510	101	mg/L	SW-846 6010B	P
Tin	0.500	0.500	100	mg/L	SW-846 6010B	P
Titanium	0.500	0.490	99	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	98	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	98	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	98	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-52-2 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 03/08/08 Time: 0931

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Barium	0.500	0.490	99	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	99	mg/L	SW-846 6010B	P
Boron	2.50	2.46	98	mg/L	SW-846 6010B	P
Cadmium	0.500	0.500	99	mg/L	SW-846 6010B	P
Calcium	5.00	5.05	101	mg/L	SW-846 6010B	P
Chromium	0.500	0.500	99	mg/L	SW-846 6010B	P
Cobalt	0.500	0.490	98	mg/L	SW-846 6010B	P
Copper	0.500	0.490	97	mg/L	SW-846 6010B	P
Iron	5.00	5.04	101	mg/L	SW-846 6010B	P
Lead	0.500	0.500	99	mg/L	SW-846 6010B	P
Lithium	0.500	0.510	101	mg/L	SW-846 6010B	P
Magnesium	5.00	5.06	101	mg/L	SW-846 6010B	P
Manganese.	0.500	0.500	99	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	100	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	100	mg/L	SW-846 6010B	P
Potassium	10.0	10.1	101	mg/L	SW-846 6010B	P
Selenium	0.500	0.490	99	mg/L	SW-846 6010B	P
Silicon	5.00	4.96	99	mg/L	SW-846 6010B	P
Silver	0.500	0.490	99	mg/L	SW-846 6010B	P
Sodium	20.0	20.0	100	mg/L	SW-846 6010B	P
Strontium	0.500	0.500	100	mg/L	SW-846 6010B	P
Thallium	0.500	0.500	100	mg/L	SW-846 6010B	P
Tin	0.500	0.500	99	mg/L	SW-846 6010B	P
Titanium	0.500	0.490	99	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	99	mg/L	SW-846 6010B	P
Zinc	0.500	0.500	99	mg/L	SW-846 6010B	P
Zirconium	0.500	0.480	95	mg/L	SW-846 6010B	P
Aluminum	5.00	5.07	101	mg/L	SW-846 6010B	P
Antimony	0.500	0.490	97	mg/L	SW-846 6010B	P
Arsenic	0.500	0.500	99	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Calibration Source: 173-52-2 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 4

Date Analyzed: 03/08/08 Time: 1045

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.02	100	mg/L	SW-846 6010B	P
Antimony	0.500	0.480	96	mg/L	SW-846 6010B	P
Arsenic	0.500	0.490	97	mg/L	SW-846 6010B	P
Barium	0.500	0.490	98	mg/L	SW-846 6010B	P
Beryllium	0.500	0.480	97	mg/L	SW-846 6010B	P
Boron	2.50	2.44	98	mg/L	SW-846 6010B	P
Cadmium	0.500	0.480	96	mg/L	SW-846 6010B	P
Calcium	5.00	5.04	101	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	98	mg/L	SW-846 6010B	P
Cobalt	0.500	0.480	97	mg/L	SW-846 6010B	P
Copper	0.500	0.490	99	mg/L	SW-846 6010B	P
Iron	5.00	5.00	100	mg/L	SW-846 6010B	P
Lead	0.500	0.490	98	mg/L	SW-846 6010B	P
Lithium	0.500	0.510	102	mg/L	SW-846 6010B	P
Magnesium	5.00	5.03	101	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	98	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	98	mg/L	SW-846 6010B	P
Nickel	0.500	0.490	98	mg/L	SW-846 6010B	P
Potassium	10.0	10.0	100	mg/L	SW-846 6010B	P
Selenium	0.500	0.490	97	mg/L	SW-846 6010B	P
Silicon	5.00	5.00	100	mg/L	SW-846 6010B	P
Silver	0.500	0.490	98	mg/L	SW-846 6010B	P
Sodium	20.0	19.6	98	mg/L	SW-846 6010B	P
Strontium	0.500	0.500	100	mg/L	SW-846 6010B	P
Thallium	0.500	0.500	100	mg/L	SW-846 6010B	P
Tin	0.500	0.490	97	mg/L	SW-846 6010B	P
Titanium	0.500	0.490	98	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	98	mg/L	SW-846 6010B	P
Zinc	0.500	0.480	97	mg/L	SW-846 6010B	P
Zirconium	0.500	0.470	94	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

FORM II - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab Sample ID: ICB

ICAL ID: 1

Lab Sample DESC: ICB FOR HBN 368512 [ICP/4872]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6

Date Analyzed: 03/05/08 Time: 1107

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P
Barium	0.010	U	mg/kg	0.00032	0.010	SW-846 6010B	P
Vanadium	0.020	U	mg/kg	0.0012	0.020	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 208030427
Lab Sample ID: CCB
ICAL ID: 1
Lab Sample DESC: CCB FOR HBN 368512 [ICP/4872]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 03/05/08 Time: 1213

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P
Barium	0.010	U	mg/kg	0.00032	0.010	SW-846 6010B	P
Vanadium	0.020	U	mg/kg	0.0012	0.020	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 208030427
Lab Sample ID: CCB
ICAL ID: 1
Lab Sample DESC: CCB FOR HBN 368512 [ICP/4872]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 03/05/08 Time: 2358

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P
Barium	0.010	U	mg/kg	0.00032	0.010	SW-846 6010B	P
Vanadium	0.0050	I	mg/kg	0.0012	0.020	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 368512 [ICP/4872]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6

Date Analyzed: 03/06/08 Time: 0110

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P
Barium	0.00040	I	mg/kg	0.00032	0.010	SW-846 6010B	P
Vanadium	0.0043	I	mg/kg	0.0012	0.020	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 368512 [ICP/4872]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6

Date Analyzed: 03/06/08 Time: 0219

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P
Barium	0.00033	I	mg/kg	0.00032	0.010	SW-846 6010B	P
Vanadium	0.0060	I	mg/kg	0.0012	0.020	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 208030427
Lab Sample ID: ICB
ICAL ID: 2
Lab Sample DESC: ICB FOR HBN 368692 [ICP/4875]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 03/06/08 Time: 1059

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P
Barium	0.010	U	mg/kg	0.00032	0.010	SW-846 6010B	P
Vanadium	0.020	U	mg/kg	0.0012	0.020	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab Sample ID: CCB

ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 368692 [ICP/4875]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6

Date Analyzed: 03/06/08 Time: 1233

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.0031	I	mg/kg	0.0030	0.010	SW-846 6010B	P
Barium	0.010	U	mg/kg	0.00032	0.010	SW-846 6010B	P
Vanadium	0.020	U	mg/kg	0.0012	0.020	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab Sample ID: CCB

ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 368692 [ICP/4875]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6

Date Analyzed: 03/06/08 Time: 2048

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.0039	I	mg/kg	0.0030	0.010	SW-846 6010B	P
Barium	0.010	U	mg/kg	0.00032	0.010	SW-846 6010B	P
Vanadium	0.020	U	mg/kg	0.0012	0.020	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab Sample ID: CCB

ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 368692 [ICP/4875]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6

Date Analyzed: 03/06/08 Time: 2202

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.0043	I	mg/kg	0.0030	0.010	SW-846 6010B	P
Barium	0.010	U	mg/kg	0.00032	0.010	SW-846 6010B	P
Vanadium	0.020	U	mg/kg	0.0012	0.020	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 208030427
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 368692 [ICP/4875]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 03/06/08 Time: 2311

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.0038	I	mg/kg	0.0030	0.010	SW-846 6010B	P
Barium	0.010	U	mg/kg	0.00032	0.010	SW-846 6010B	P
Vanadium	0.020	U	mg/kg	0.0012	0.020	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab Sample ID: 579711

ICAL ID: 1

Lab Sample DESC: MB579711

Preparation Blank Matrix: (soil / water) Soil

Instrument ID: ICP6

Date Analyzed: 03/06/08 Time: 0005

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.10	U	mg/kg	0.10	1.60	SW-846 6010B	P
Barium	0.018	I	mg/kg	0.014	0.40	SW-846 6010B	P
Vanadium	0.086	I	mg/kg	0.047	0.80	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab Sample ID: 579715

ICAL ID: 3

Lab Sample DESC: MB579715

Preparation Blank Matrix: (soil / water) Soil

Instrument ID: ICP6

Date Analyzed: 03/07/08 Time: 2229

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.10	U	mg/kg	0.10	1.60	SW-846 6010B	P
Barium	0.029	I	mg/kg	0.014	0.40	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab Sample ID: ICB

ICAL ID: 3

Lab Sample DESC: ICB FOR HBN 368769 [ICP/4879]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6

Date Analyzed: 03/07/08 Time: 1121

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P
Barium	0.010	U	mg/kg	0.00032	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 208030427
Lab Sample ID: CCB
ICAL ID: 3
Lab Sample DESC: CCB FOR HBN 368769 [ICP/4879]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 03/07/08 Time: 1232

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P
Barium	0.010	U	mg/kg	0.00032	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 368769 [ICP/4879]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6

Date Analyzed: 03/07/08 Time: 2223

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P
Barium	0.00070	I	mg/kg	0.00032	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 368769 [ICP/4879]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6

Date Analyzed: 03/07/08 Time: 2334

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P
Barium	0.00073	I	mg/kg	0.00032	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 368769 [ICP/4879]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6

Date Analyzed: 03/08/08 Time: 0045

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P
Barium	0.00074	I	mg/kg	0.00032	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab Sample ID: ICB

ICAL ID: 4

Lab Sample DESC: ICB FOR HBN 368772 [ICP/4880]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6

Date Analyzed: 03/08/08 Time: 0702

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab Sample ID: CCB

ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 368772 [ICP/4880]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6

Date Analyzed: 03/08/08 Time: 0748

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab Sample ID: CCB

ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 368772 [ICP/4880]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP6

Date Analyzed: 03/08/08 Time: 0937

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 208030427
Lab Sample ID: CCB
ICAL ID: 4
Lab Sample DESC: CCB FOR HBN 368772 [ICP/4880]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP6
Date Analyzed: 03/08/08 Time: 1051

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.010	U	mg/kg	0.0030	0.010	SW-846 6010B	P

FORM III - IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

ICP ID Number: ICP6 ICS Source: 173-47-6 SPEX~173-46-5 SPEX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	211	228	114			
Antimony	0	1.00		1.13	113			
Arsenic	0	1.00		1.12	112			
Barium	0	0.50		0.56	112			
Beryllium	0	0.50		0.58	116			
Boron	0	1.00		1.08	108			
Cadmium	0	1.00		1.13	113			
Calcium	200	200	209	224	112			
Chromium	0	0.50		0.57	114			
Cobalt	0	0.50		0.55	110			
Copper	0	0.50		0.58	116			
Iron	80.0	80.0	84.5	90.7	113			
Lead	0	1.00		1.09	109			
Magnesium	200	200	211	226	113			
Manganese	0	0.50		0.54	108			
Molybdenum	0	1.00		1.11	111			
Nickel	0	1.00		1.08	108			
Selenium	0	1.00		1.14	114			
Silver	0	1.00		1.18	118			
Thallium	0	1.00		1.16	116			
Vanadium	0	0.50		0.53	106			
Zinc	0	1.00		1.14	114			

FORM IV - IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

ICP ID Number: ICP6 ICS Source: 173-47-6 SPEX~173-46-5 SPEX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	203	222	111			
Antimony	0	1.00		1.10	110			
Arsenic	0	1.00		1.07	107			
Barium	0	0.50		0.56	112			
Beryllium	0	0.50		0.57	114			
Boron	0	1.00		1.08	108			
Cadmium	0	1.00		1.12	112			
Calcium	200	200	196	214	107			
Chromium	0	0.50		0.56	112			
Cobalt	0	0.50		0.54	108			
Copper	0	0.50		0.58	116			
Iron	80.0	80.0	78.8	86.0	108			
Lead	0	1.00		1.08	108			
Magnesium	200	200	197	214	107			
Manganese	0	0.50		0.54	108			
Molybdenum	0	1.00		1.10	110			
Nickel	0	1.00		1.08	108			
Selenium	0	1.00		1.11	111			
Silver	0	1.00		1.18	118			
Thallium	0	1.00		1.14	114			
Vanadium	0	0.50		0.53	106			
Zinc	0	1.00		1.11	111			

FORM IV - IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

ICP ID Number: ICP6 ICS Source: 173-47-6 SPEX~173-46-5 SPEX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	199	215	108			
Antimony	0	1.00		1.03	103			
Arsenic	0	1.00		1.01	101			
Barium	0	0.50		0.52	104			
Beryllium	0	0.50		0.53	106			
Boron	0	1.00		1.02	102			
Cadmium	0	1.00		1.02	102			
Calcium	200	200	197	210	105			
Chromium	0	0.50		0.52	104			
Cobalt	0	0.50		0.50	100			
Copper	0	0.50		0.53	106			
Iron	80.0	80.0	78.1	83.6	104			
Lead	0	1.00		1.01	101			
Magnesium	200	200	196	210	105			
Manganese	0	0.50		0.50	100			
Molybdenum	0	1.00		1.03	103			
Nickel	0	1.00		1.00	100			
Selenium	0	1.00		1.05	105			
Silver	0	1.00		1.08	108			
Thallium	0	1.00		1.07	107			
Vanadium	0	0.50		0.48	96			
Zinc	0	1.00		1.03	103			

FORM IV - IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

ICP ID Number: ICP6 ICS Source: 173-47-6 SPEX~173-46-5 SPEX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	207	224	112			
Antimony	0	1.00		1.11	111			
Arsenic	0	1.00		1.06	106			
Barium	0	0.50		0.56	112			
Beryllium	0	0.50		0.57	114			
Boron	0	1.00		1.14	114			
Cadmium	0	1.00		1.09	109			
Calcium	200	200	199	215	108			
Chromium	0	0.50		0.56	112			
Cobalt	0	0.50		0.54	108			
Copper	0	0.50		0.58	116			
Iron	80.0	80.0	79.8	86.2	108			
Lead	0	1.00		1.08	108			
Magnesium	200	200	201	216	108			
Manganese	0	0.50		0.53	106			
Molybdenum	0	1.00		1.11	111			
Nickel	0	1.00		1.07	107			
Selenium	0	1.00		1.12	112			
Silver	0	1.00		1.16	116			
Thallium	0	1.00		1.15	115			
Vanadium	0	0.50		0.52	104			
Zinc	0	1.00		1.10	110			

FORM IV - IN

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Matrix Spike - EPA Sample No: MPT05-SS02-01-022808 Method SW-846 6010B

SAMPLE NO. : 579714

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Arsenic	mg/kg	22.1	4.83	25.4	93		80 - 120
Barium	mg/kg	22.1	7.47	30.4	104		80 - 120
Vanadium	mg/kg	22.1	14.1	41.2	123	N	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 0 outside limits

Spike Recovery: 1 out of 3 outside limits

FORM V (PART 1) - IN

MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Matrix Spike - EPA Sample No: MPT04-SB04-07-022908 Method SW-846 6010B

SAMPLE NO. : 579718

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*#*	*QC. LIMITS*
Arsenic	mg/kg	24.8	.33	22.4	89		80 - 120
Barium	mg/kg	24.8	7.48	26.7	78	N	80 - 120

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD : 0 out of 0 outside limits

Spike Recovery: 1 out of 2 outside limits

FORM V (PART 1) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: MPT05-SS02-01-02...PDS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 208030427

Level: (low / med)

Lab Sample ID: 580348

Orig Lab Sample ID: 20803042702

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Arsenic	75	125	25.2		4.83		.022	92		mg/kg	SW-846 6010B	P
Barium	75	125	29.5		7.47		.022	100		mg/kg	SW-846 6010B	P
Vanadium	75	125	36.5		14.1		.022	101		mg/kg	SW-846 6010B	P

FORM V (PART 2) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: MPT04-SB04-07-02...PDS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 208030427

Level: (low / med)

Lab Sample ID: 581383

Orig Lab Sample ID: 20803042723

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Arsenic	75	125	21.7		.33	I	24.8	86		mg/kg	SW-846 6010B	P
Barium	75	125	29.1		7.48		24.8	87		mg/kg	SW-846 6010B	P

FORM V (PART 2) - IN

DUPLICATES

Lab Name: GCAL

Sample ID: MPT05-SS02-01-02...DUP

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 208030427

% Solids for Sample:

Level: (low / med)

% Solids for Duplicate:

Lab Sample ID: 579713

Analyte	LL	UL	Sample	C	Duplicate	C	RPD	Q	Units	Method	Type
Arsenic	0	20	4.83		4.71		3		mg/kg	SW-846 6010B	P
Barium	0	20	7.47		7.23		3		mg/kg	SW-846 6010B	P
Vanadium	0	20	14.1		13.7		2		mg/kg	SW-846 6010B	P

FORM VI - IN

DUPLICATES

Lab Name: GCAL

Sample ID: MPT04-SB04-07-02...DUP

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 208030427

% Solids for Sample:

Level: (low / med)

% Solids for Duplicate:

Lab Sample ID: 579717

Analyte	LL	UL	Sample	C	Duplicate	C	RPD	Q	Units	Method	Type
Arsenic	0	20	.33	I	.43	I	26	*	mg/kg	SW-846 6010B	P
Barium	0	20	7.48		3.22		80	*	mg/kg	SW-846 6010B	P

FORM VI - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS579712

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 208030427

Lab Sample ID: 579712

LCS Source: 334-85-4 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Arsenic	20.0	18.0	90	80	120	mg/kg	SW-846 6010B	P
Barium	20.0	19.7	99	80	120	mg/kg	SW-846 6010B	P
Vanadium	20.0	20.1	100	80	120	mg/kg	SW-846 6010B	P

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS579716

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 208030427

Lab Sample ID: 579716

LCS Source: 334-85-4 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Arsenic	20.0	17.8	89	80	120	mg/kg	SW-846 6010B	P
Barium	20.0	19.6	98	80	120	mg/kg	SW-846 6010B	P

FORM VII - IN

SERIAL DILUTIONS

Lab Name: GCAL

Sample ID: MPT05-SS02-01-022808SD

Lab Code: LA024 Case No.

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 208030427

Level: (low / med)

Org Lab Sample ID: 20803042702

Lab Sample ID: 580349

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Arsenic			4.83		4.44	I	8.1		mg/kg	SW-846 6010B	P
Barium	0	10	7.47		7.98		6.8		mg/kg	SW-846 6010B	P
Vanadium	0	10	14.1		15.7		11.3	E	mg/kg	SW-846 6010B	P

FORM IX - IN

SERIAL DILUTIONS

Lab Name: GCAL

Sample ID: MPT04-SB04-07-022908SD

Lab Code: LA024 Case No.

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 208030427

Level: (low / med)

Org Lab Sample ID: 20803042723

Lab Sample ID: 581384

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Arsenic			0.33	I	0	U	100		mg/kg	SW-846 6010B	P
Barium	0	10	7.48		9.38		25.4	E	mg/kg	SW-846 6010B	P

FORM IX - IN

METHOD DETECTION LIMITS

Lab Name: GCAL

Lab Code: LA024

Study Date: (P) 08/22/07

Sample ID:

SDG No.: 208030427

Instrument ID: (P) ICP5, ICP6

Analyte	*MDL*	*Units*	*Type*
Arsenic	0.1	mg/kg	P
Barium	0.014	mg/kg	P
Vanadium	.047	mg/kg	P

FORM X - IN

PREPARATION LOG

Lab Name: GCAL Sample ID:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Method: SW-846 6010B Method Type: P

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
LCS579712	03/04/08	1.25	g	50	mL
MB579711	03/04/08	1.25	g	50	mL
MPT04-SB02-05-022908	03/04/08	1.26	g	50	mL
MPT04-SB02-07-022908	03/04/08	1.25	g	50	mL
MPT04-SB02-09-022908	03/04/08	1.25	g	50	mL
MPT04-SB02-11-022908	03/04/08	1.26	g	50	mL
MPT04-SB03-05-022908	03/04/08	1.25	g	50	mL
MPT04-SB03-07-022908	03/04/08	1.25	g	50	mL
MPT04-SB03-09-022908	03/04/08	1.26	g	50	mL
MPT05-SB01-04-022808	03/04/08	1.25	g	50	mL
MPT05-SB02-04-022808	03/04/08	1.25	g	50	mL
MPT05-SB02-06-022808	03/04/08	1.26	g	50	mL
MPT05-SB02-08-022808	03/04/08	1.25	g	50	mL
MPT05-SB02-10-022808	03/04/08	1.26	g	50	mL
MPT05-SB03-04-022808	03/04/08	1.25	g	50	mL
MPT05-SB03-06-022808	03/04/08	1.25	g	50	mL
MPT05-SB04-04-022808	03/04/08	1.26	g	50	mL
MPT05-SB04-06-022808	03/04/08	1.25	g	50	mL
MPT05-SB04-08-022808	03/04/08	1.25	g	50	mL
MPT05-SB04-10-022808	03/04/08	1.26	g	50	mL
MPT05-SS02-01-02...DUP	03/04/08	1.25	g	50	mL
MPT05-SS02-01-022808	03/04/08	1.25	g	50	mL
MPT05-SS02-01-022808MS	03/04/08	1.25	g	50	mL
MPT05-SS04-01-022808	03/04/08	1.26	g	50	mL

FORM XIII - IN

PREPARATION LOG

Lab Name: GCAL Sample ID:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Method: SW-846 6010B Method Type: P

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
LCS579716	03/04/08	1.25	g	50	mL
MB579715	03/04/08	1.25	g	50	mL
MPT04-SB03-11-022908	03/04/08	1.26	g	50	mL
MPT04-SB04-05-022908	03/04/08	1.25	g	50	mL
MPT04-SB04-07-02...DUP	03/04/08	1.25	g	50	mL
MPT04-SB04-07-022908	03/04/08	1.25	g	50	mL
MPT04-SB04-07-022908MS	03/04/08	1.25	g	50	mL
MPT04-SB04-09-022908	03/04/08	1.26	g	50	mL
MPT04-SB04-11-022908	03/04/08	1.25	g	50	mL
MPT05-SS05-01-030308	03/04/08	1.25	g	50	mL
MPT05-SS06-01-030308	03/04/08	1.26	g	50	mL
MPT05-SS07-01-030308	03/04/08	1.26	g	50	mL
MPT05-SS08-01-030308	03/04/08	1.25	g	50	mL
MPT05-SS09-01-030308	03/04/08	1.25	g	50	mL
MPT05-SS10-01-030308	03/04/08	1.25	g	50	mL
MPT05-SS11-01-030308	03/04/08	1.25	g	50	mL
MPT05-SS12-01-030308	03/04/08	1.26	g	50	mL

FORM XIII - IN

IEC File Name: 2070924 IEC

IEC File Last Saved: 9/29/2007 9:55:48 AM
Printed On: 10/9/2007 2:09:37 PM

Results Data Set Name: 2070924 LI
Method Name: ICP
Results Library: C:\pe\met\Results\Results.md

Interfering Analytes

	Analytes	Aluminum,7429-90-5	Calcium,7440-70-2	Chromium,7440-47-3	Copper,7440-50-8
1	**Aluminum,7429-90-5**	n/a	0.00792607	0.110462	0.0376095
2	**Antimony,7440-36-0**	0.02934	0	13.001	0.551054
5	**Arsenic,7440-38-2**	-0.141463	-0.00176952	0.377192	0.0849115
6	**Barium,7440-39-3**	0.000878079	0.008692	0.262135	0.182725
7	**Beryllium,7440-41-7**	0.000146485	1.36492e-005	0.465765	0.124779
8	**Boron,7440-42-8**	0.00863762	0.00250444	0.560981	0.0858471
9	**Cadmium,7440-43-9**	-0.00337358	-0.00104779	0.784962	0.248263
10	**Calcium,7440-70-2**	0.0187814	n/a	-0.189698	0.559896
11	**Chromium,7440-47-3**	0.0309069	0	n/a	0.158646
12	**Cobalt,7440-48-4**	0.00474653	0	0.28274	0.266734
13	**Copper,7440-50-8**	0.00228739	0.00387706	0.0465432	n/a
14	**Iron,7439-89-6**	0.0264732	0	0.576178	0.044658
15	**Lead,7439-92-1**	-0.197638	-0.00759968	-0.487037	6.20709
16	**Lithium,7439-93-2**	-0.00375851	-0.00270646	-0.0339642	-0.0525092
17	**Magnesium,7439-95-4**	0.0208898	0.114121	-0.448088	0.243596
18	**Manganese, 7439-96-5**	-4.14789e-005	0.00151742	0.0868767	0.0343018
19	**Molybdenum,7439-98-7**	-0.00346883	0.00272	0.0594783	0.0130945
20	**Nickel,7440-02-0**	0.00193984	0	0.0478813	0.0970478
21	**Potassium,7440-09-7**	0.0137039	-0.00930044	0.356861	0.0879742
23	**Selenium,7782-49-2**	-0.00272103	0	0.103625	0.0353185
24	**Silicon,7440-21-3**	-0.00569647	0.00931319	0.0375508	0.0220564
25	**Silver,7440-22-4**	-0.00066032	0.00226912	0.0381443	0.126026
26	**Sodium,7440-23-5**	0.0332251	0.0412241	1.52812	0.26372
27	**Strontium,7440-24-6**	0.000212076	0.0266515	0.0143147	0.0663916
28	**Thallium,7440-28-0**	-0.000202144	0	0.215873	0.0404165
29	**Tin,7440-31-5**	0.0188968	-0.0215346	-0.0103333	0.0707597
30	**Titanium,7440-32-6**	8.86255e-005	0	0.0554876	0.0305921
31	**Vanadium,7440-62-2**	0.00230849	0.00353846	-1.74957	0.00146415
34	**Zinc,7440-66-6**	-0.000368051	0.00115878	0.164028	1.1199
35	**Zirconium,7440-67-7**	0.00010018	0.00282167	0.127755	0.144273

IEC File Name: 2070924 IEC

IEC File Last Saved: 9/29/2007 9:55:48 AM
Printed On: 10/9/2007 2:09:37 PM

Results Data Set Name: 2070924 LI
Method Name: ICP
Results Library: C:\pe\met\Results\Results.md

Interfering Analytes

	Analytes	Iron,7439-89-6	Magnesium,7439-95-4	Manganese, 7439-96-5	Nickel,7440-02-0
1	Aluminum,7429-90-5	-0.00649331	0.00163255	0.890864	0.345511
2	Antimony,7440-36-0	-0.132136	0.00147693	-0.0498369	0.262605
5	Arsenic,7440-38-2	0.0704379	0.0106492	-0.121506	-0.0420072
6	Barium,7440-39-3	0.0271825	0	-0.0180809	0.0584736
7	Beryllium,7440-41-7	0.0119566	0	0.143338	0.289839
8	Boron,7440-42-8	-0.631744	0.0119768	0.126655	0.128358
9	Cadmium,7440-43-9	0.0469776	0	0.352775	0.306732
10	Calcium,7440-70-2	0.906731	0.035248	1.07857	1.15471
11	Chromium,7440-47-3	-0.00348354	0.0267578	0.779906	0.269021
12	Cobalt,7440-48-4	0.0417888	0	0.262218	0.383733
13	Copper,7440-50-8	-0.289029	0.0277794	0.250058	0.44936
14	Iron,7439-89-6	n/a	0.0213767	0.3091	0.191789
15	Lead,7439-92-1	0.0722419	0.00597067	0.253696	0.602855
16	Lithium,7439-93-2	-0.00917419	-0.00564257	-0.1185	-0.0917862
17	Magnesium,7439-95-4	0.855429	n/a	-2.72017	0.230088
18	Manganese, 7439-96-5	-0.0194472	0.0109196	n/a	0.806992
19	Molybdenum,7439-98-7	-0.00935574	0	0.147449	0.0265019
20	Nickel,7440-02-0	0.0297258	0.0028809	0.382214	n/a
21	Potassium,7440-09-7	3.42928	0.0500354	0.862893	0.202227
23	Selenium,7782-49-2	0.27392	0.00557931	-0.308083	0.0933238
24	Silicon,7440-21-3	-0.089341	0.85248	0.0609819	0
25	Silver,7440-22-4	-0.0759354	0.00198648	0.2245	0.0197997
26	Sodium,7440-23-5	10.5213	0.0506355	1.02439	0.670137
27	Strontium,7440-24-6	0.00325948	0	0.0312812	0.0263439
28	Thallium,7440-28-0	0.121668	0.00213783	-7.70195	0.0242386
29	Tin,7440-31-5	0.0989518	-0.00155157	0.103643	0.0537503
30	Titanium,7440-32-6	0.00169874	0	0.0493579	0.0471934
31	Vanadium,7440-62-2	0.0740943	-0.0377663	0.0609309	0.00639791
34	Zinc,7440-66-6	0.105822	0.0290266	0.255285	5.94024
35	Zirconium,7440-67-7	0.0609514	0	0.341054	0.217792

IEC File Last Saved: 9/29/2007 9:55:48 AM
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Results Data Set Name: 2070924 LI
Method Name: ICP
Results Library: C:\pe\met\Results\Results.md

Interfering Analytes

	Analytes	Titanium,7440-32-6	Vanadium,7440-62-2
1	Aluminum,7429-90-5	1.15901	-7.81757
2	Antimony,7440-36-0	0.293922	0.207319
5	Arsenic,7440-38-2	0.0970806	-8.04593
6	Barium,7440-39-3	-0.0547496	0.778139
7	Beryllium,7440-41-7	0.360833	0.443235
8	Boron,7440-42-8	0.0656955	-0.665162
9	Cadmium,7440-43-9	0.00547838	0.313771
10	Calcium,7440-70-2	0.489704	0.672895
11	Chromium,7440-47-3	0.112519	-0.936683
12	Cobalt,7440-48-4	2.1646	0.380699
13	Copper,7440-50-8	-0.471426	-0.0294257
14	Iron,7439-89-6	0.11619	0.461722
15	Lead,7439-92-1	0.108062	0.796775
16	Lithium,7439-93-2	-0.155496	-0.0423537
17	Magnesium,7439-95-4	0.190857	0.68403
18	Manganese, 7439-96-5	0.573664	0.206769
19	Molybdenum,7439-98-7	-0.00191884	0.129833
20	Nickel,7440-02-0	0.0489453	0.35187
21	Potassium,7440-09-7	0.394997	0.611896
23	Selenium,7782-49-2	0.111172	0.497636
24	Silicon,7440-21-3	0	0.104846
25	Silver,7440-22-4	-0.00120839	-1.3341
26	Sodium,7440-23-5	0.17308	0.379691
27	Strontium,7440-24-6	0.00255854	0.479243
28	Thallium,7440-28-0	-10.273	-15.2658
29	Tin,7440-31-5	0.349354	-0.0114007
30	Titanium,7440-32-6	n/a	0.0808337
31	Vanadium,7440-62-2	-0.137216	n/a
34	Zinc,7440-66-6	-0.597589	0.0678779
35	Zirconium,7440-67-7	0.175437	0.302945

ICP LINEAR RANGES

Lab Name: GCAL

Lab Code: LA024

Study Date: 09/19/07

Sample ID:

SDG No.: 208030427

Instrument ID: ICP6

Analyte	*Concentration*	*% Recovery*	*Units*	*Type*
Aluminum	60000	98	mg/kg	P
Antimony	1600	103	mg/kg	P
Arsenic	1000	100	mg/kg	P
Barium	1000	101	mg/kg	P
Beryllium	200	105	mg/kg	P
Boron	2000	91	mg/kg	P
Cadmium	1000	99	mg/kg	P
Calcium	80000	96	mg/kg	P
Chromium	4800	95	mg/kg	P
Cobalt	6000	100	mg/kg	P
Copper	4000	96	mg/kg	P
Iron	32000	95	mg/kg	P
Lead	20000	101	mg/kg	P
Lithium	800	102	mg/kg	P
Magnesium	32000	100	mg/kg	P
Manganese	1400	97	mg/kg	P
Molybdenum	4000	102	mg/kg	P
Nickel	2000	105	mg/kg	P
Potassium	6000	98	mg/kg	P
Selenium	600	104	mg/kg	P
Silver	400	103	mg/kg	P
Sodium	24000	104	mg/kg	P
Thallium	800	105	mg/kg	P
Tin	2000	100	mg/kg	P
Titanium	1600	105	mg/kg	P
Vanadium	4000	105	mg/kg	P
Zinc	600	101	mg/kg	P

FORM XII - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 03/05/08

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427 End Date: 03/06/08

Instrument ID Number: ICP6 Method: SW-846 6010B Method Type: P

				Analyte Symbols																														
Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1046			X	X																									X		
ICV2	*	1	1100				X																											
ICB	*	1	1107			X	X																									X		
CRDL	*	1	1114			X	X																									X		
CRDL2	*	1	1138			X	X																									X		
ICSA	*	1	1151			X	X																									X		
ICSAB	*	1	1158			X	X																									X		
CCV	*	1	1204			X	X																									X		
CCB	*	1	1213			X	X																									X		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1240																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1247																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1252																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1258																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1304																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1309																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1315																															
CCV	*	1	1327			X	X																									X		
CCB	*	1	1336			X	X																									X		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1343																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1350																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1357																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1357																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1403																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1403																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1409																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1415																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1421																															

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 03/05/08

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427 End Date: 03/06/08

Instrument ID Number: ICP6 Method: SW-846 6010B Method Type: P

				Analyte Symbols																														
Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1426																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1432																															
CCV	*	1	1445			X	X																									X		
CCB	*	1	1459			X	X																									X		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1525																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1532																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1538																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1544																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		10	1551																															
CCV	*	1	1622			X	X																									X		
CCB	*	1	1627			X	X																									X		
CCV	*	1	1742			X	X																									X		
CCB	*	1	1754			X	X																									X		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1801																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1806																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1812																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1818																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1824																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1829																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1835																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1841																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1847																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1852																															
CCV	*	1	1858			X	X																									X		
CCB	*	1	1904			X	X																									X		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1911																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1916																															

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 03/05/08

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427 End Date: 03/06/08

Instrument ID Number: ICP6 Method: SW-846 6010B Method Type: P

				Analyte Symbols																														
Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1922																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1928																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1934																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1941																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1947																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1953																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1959																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	2006																															
CCV	*	1	2012			X	X																									X		
CCB	*	1	2018			X	X																									X		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2025																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2031																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2037																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2042																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2048																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2054																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2100																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2105																															
CCV	*	1	2126			X	X																									X		
CCB	*	1	2131			X	X																									X		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2138																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2145																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2151																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2157																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2202																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2208																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	2213																															

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 03/05/08

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427 End Date: 03/06/08

Instrument ID Number: ICP6 Method: SW-846 6010B Method Type: P

Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
				Analyte Symbols																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2225																															
CCV	*	1	2237			X	X																									X		
CCB	*	1	2243			X	X																									X		
CCV	*	1	2352			X	X																									X		
CCB	*	1	2358			X	X																									X		
MB579711	*	1	0005			X	X																									X		
LCS579712	*	1	0011			X	X																									X		
MPT05-SS02-01-022808	*	1	0018			X	X																									X		
MPT05-SS02-01-02...DUP	*	1	0024			X	X																									X		
MPT05-SS02-01-022808MS	*	1	0029			X	X																									X		
MPT05-SS02-01-02...PDS	*	1	0035			X	X																									X		
MPT05-SS02-01-022808SD	*	5	0041			X	X																									X		
MPT05-SB01-04-022808	*	1	0047			X	X																									X		
MPT05-SB02-04-022808	*	1	0052			X	X																									X		
MPT05-SB02-06-022808	*	1	0058			X	X																									X		
CCV	*	1	0104			X	X																									X		
CCB	*	1	0110			X	X																									X		
MPT05-SB03-04-022808	*	1	0128			X	X																									X		
MPT05-SB03-06-022808	*	1	0133			X	X																									X		
MPT05-SB04-04-022808	*	1	0145			X	X																									X		
MPT05-SB04-08-022808	*	1	0156			X	X																									X		
MPT05-SB04-10-022808	*	1	0202			X	X																									X		
MPT04-SB02-05-022908	*	1	0208			X	X																											
CCV	*	1	0213			X	X																									X		
CCB	*	1	0219			X	X																									X		

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FORM XIV - IN

954

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 03/06/08

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427 End Date: 03/07/08

Instrument ID Number: ICP6 Method: SW-846 6010B Method Type: P

				Analyte Symbols																														
Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1033			X	X																									X		
ICB	*	1	1059			X	X																									X		
CRDL	*	1	1106			X	X																									X		
CRDL2	*	1	1148			X	X																									X		
ICSA	*	1	1154			X	X																									X		
ICSAB	*	1	1208			X	X																									X		
CCV	*	1	1228			X	X																									X		
CCB	*	1	1233			X	X																									X		
ICV2	*	1	1247				X																											
CCV	*	1	1402			X	X																									X		
CCB	*	1	1408			X	X																									X		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1414																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		50	1429																															
CCV	*	1	1522			X	X																									X		
CCB	*	1	1527			X	X																									X		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1553																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		40	1559																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1605																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1612																															
CCV	*	1	1706			X	X																									X		
CCB	*	1	1711			X	X																									X		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1718																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1725																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1730																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1736																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1742																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1748																															

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 03/06/08

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427 End Date: 03/07/08

Instrument ID Number: ICP6 Method: SW-846 6010B Method Type: P

				Analyte Symbols																														
Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1753																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1759																															
CCV	*	1	1818			X	X																									X		
CCB	*	1	1824			X	X																									X		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1830																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1837																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1843																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1848																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1854																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1900																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1905																															
CCV	*	1	1931			X	X																									X		
CCB	*	1	1936			X	X																									X		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1943																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1949																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1955																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2001																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2006																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2012																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	2018																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2024																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2030																															
CCV	*	1	2042			X	X																									X		
CCB	*	1	2048			X	X																									X		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2054																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2101																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2108																															

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 03/06/08

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427 End Date: 03/07/08

Instrument ID Number: ICP6 Method: SW-846 6010B Method Type: P

Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
				Analyte Symbols																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2114																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2120																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2125																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2132																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2138																															
MPT04-SB02-07-022908	*	1	2144			X	X																											
CCV	*	1	2156			X	X																									X		
CCB	*	1	2202			X	X																									X		
MPT05-SB02-08-022808	*	2	2209			X	X																									X		
MPT05-SB02-10-022808	*	2	2214			X	X																									X		
MPT05-SS04-01-022808	*	2	2220			X	X																									X		
MPT05-SB04-06-022808	*	2	2225			X	X																									X		
MPT04-SB02-09-022908	*	1	2231			X	X																											
MPT04-SB02-11-022908	*	1	2237			X	X																											
MPT04-SB03-05-022908	*	1	2242			X	X																											
MPT04-SB03-07-022908	*	1	2248			X	X																											
MPT04-SB03-09-022908	*	1	2253			X	X																											
CCV	*	1	2306			X	X																									X		
CCB	*	1	2311			X	X																									X		

As 0.0043

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 03/07/08

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427 End Date: 03/08/08

Instrument ID Number: ICP6 Method: SW-846 6010B Method Type: P

				Analyte Symbols																														
Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	1101			X	X																											
ICV2	*	1	1115																															
ICB	*	1	1121			X	X																											
CRDL	*	1	1128			X	X																											
CRDL2	*	1	1134			X	X																											
ICSA	*	1	1147			X	X																											
ICSAB	*	1	1154			X	X																											
CCV	*	1	1214			X	X																											
CCB	*	1	1232			X	X																											
CCV	*	1	1830			X	X																											
CCB	*	1	1836			X	X																											
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1847																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1854																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1901																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1907																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1913																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1920																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1926																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1932																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1938																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1944																															
CCV	*	1	1950			X	X																											
CCB	*	1	1955			X	X																											
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	2002																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2009																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2015																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2022																															

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958

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 03/07/08

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427 End Date: 03/08/08

Instrument ID Number: ICP6 Method: SW-846 6010B Method Type: P

				Analyte Symbols																													
Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2028																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2033																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2040																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2047																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2052																														
CCV	*	1	2105			X	X																										
CCB	*	1	2110			X	X																										
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2117																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2124																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2129																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2135																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2141																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2147																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	2152																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2158																														
CCV	*	1	2217			X	X																										
CCB	*	1	2223			X	X																										
MB579715	*	1	2229			X	X																										
LCS579716	*	1	2236			X	X																										
MPT04-SB04-07-022908	*	1	2243			X	X																										
MPT04-SB04-07-02...DUP	*	1	2248			X	X																										
MPT04-SB04-07-022908MS	*	1	2254			X	X																										
MPT04-SB04-07-02...PDS	*	1	2300			X	X																										
MPT04-SB04-07-022908SD	*	5	2306			X	X																										
MPT04-SB03-11-022908	*	1	2311			X	X																										
MPT04-SB04-05-022908	*	1	2317			X	X																										
MPT04-SB04-09-022908	*	1	2323			X	X																										

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ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 03/07/08

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427 End Date: 03/08/08

Instrument ID Number: ICP6 Method: SW-846 6010B Method Type: P

				Analyte Symbols																															
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
CCV	*	1	2328			X	X																												
CCB	*	1	2334			X	X																												
MPT04-SB04-11-022908	*	1	2341			X	X																												
MPT05-SS05-01-030308	*	1	2346			X																													
MPT05-SS06-01-030308	*	1	2352			X																													
MPT05-SS07-01-030308	*	1	2358			X																													
MPT05-SS08-01-030308	*	1	0003			X																													
MPT05-SS10-01-030308	*	1	0015			X																													
MPT05-SS12-01-030308	*	1	0026			X																													
CCV	*	1	0039			X	X																												
CCB	*	1	0045			X	X																												

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 03/08/08

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427 End Date: 03/08/08

Instrument ID Number: ICP6 Method: SW-846 6010B Method Type: P

				Analyte Symbols																														
Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	0649			X																												
ICV2	*	1	0656			X																												
ICB	*	1	0702			X																												
CRDL	*	1	0717			X																												
CRDL2	*	1	0724			X																												
ICSA	*	1	0729			X																												
ICSAB	*	1	0736			X																												
CCV	*	1	0743			X																												
CCB	*	1	0748			X																												
CCV	*	1	0816			X																												
CCB	*	1	0822			X																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0828																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0835																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0841																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0847																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0853																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0859																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	0905																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0911																															
CCV	*	1	0931			X																												
CCB	*	1	0937			X																												
MPT05-SS09-01-030308	*	2	0943			X																												
MPT05-SS11-01-030308	*	2	0949			X																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1014																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1021																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1026																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1032																															

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ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 03/08/08

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427 End Date: 03/08/08

Instrument ID Number: ICP6 Method: SW-846 6010B Method Type: P

				Analyte Symbols																														
Sample No.	**PF**	**D/F**	**Time**	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1038																															
CCV	*	1	1045			X																												
CCB	*	1	1051			X																												

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Ar 420.067 R	2078310.5	85.5754 %	0.16906				0.20%
Scandium-IS	1779392.6	87.8327 %	0.45151				0.51%
Yttrium,7440-65-5A	907941.8	88.6978 %	0.19113				0.22%
Yttrium,7440-65-5R	138760.5	92.7975 %	0.95077				1.02%
Aluminum,7429-90-5†	22358.2	21.2038 mg/L	0.07236	4240.76	mg/kg	14.473	0.34%
Antimony,7440-36-0†	24.5	0.01273 mg/L	0.001272	2.54643	mg/kg	0.254359	9.99%
Arsenic,7440-38-2†	33.5	0.02006 mg/L	0.001984	4.01225	mg/kg	0.396751	9.89%
Barium,7440-39-3†	5263.7	0.03608 mg/L	0.000155	7.21691	mg/kg	0.030963	0.43%
Beryllium,7440-41-7†	4645.9	0.00118 mg/L	0.000096	0.23677	mg/kg	0.019225	8.12%
Boron,7440-42-8†	2137.1	0.08527 mg/L	0.003601	17.0545	mg/kg	0.72029	4.22%
Cadmium,7440-43-9†	-102.3	-0.00284 mg/L	0.000058	-0.56712	mg/kg	0.011596	2.04%
Calcium,7440-70-2†	457594.2	91.4652 mg/L	0.64808	18293.0	mg/kg	129.62	0.71%
Chromium,7440-47-3†	5379.3	0.05063 mg/L	0.000204	10.1262	mg/kg	0.04084	0.40%
Cobalt,7440-48-4†	241.8	0.00513 mg/L	0.000126	1.02630	mg/kg	0.025164	2.45%
Copper,7440-50-8†	3910.7	0.01696 mg/L	0.001903	3.39133	mg/kg	0.380620	11.22%
Iron,7439-89-6†	358531.3	46.4494 mg/L	0.36290	9289.89	mg/kg	72.580	0.78%
Lead,7439-92-1†	206.9	0.02770 mg/L	0.001246	5.54059	mg/kg	0.249254	4.50%
Lithium,7439-93-2†	1686.1	0.03467 mg/L	0.001436	6.93330	mg/kg	0.287230	4.14%
Magnesium,7439-95-4†	5082.2	3.87226 mg/L	0.026156	774.452	mg/kg	5.2312	0.68%
Manganese, 7439-96-5†	92862.5	0.19908 mg/L	0.001482	39.8158	mg/kg	0.29645	0.74%
Molybdenum,7439-98-7†	288.7	0.02044 mg/L	0.000950	4.08876	mg/kg	0.190097	4.65%
Nickel,7440-02-0†	555.1	0.01240 mg/L	0.000492	2.48086	mg/kg	0.098366	3.97%
Potassium,7440-09-7†	7701.6	3.71641 mg/L	0.029521	743.281	mg/kg	5.9042	0.79%
Selenium,7782-49-2†	-3.9	-0.00036 mg/L	0.003056	-0.07285	mg/kg	0.611177	838.90%
Silicon,7440-21-3†	7106.0	1.58398 mg/L	0.036694	316.796	mg/kg	7.3388	2.32%
Silver,7440-22-4†	-29.5	0.00319 mg/L	0.000320	0.63807	mg/kg	0.064023	10.03%
Sodium,7440-23-5†	8690.7	1.28677 mg/L	0.041918	257.353	mg/kg	8.3835	3.26%
Strontium,7440-24-6†	235062.1	0.47834 mg/L	0.003050	95.6680	mg/kg	0.61004	0.64%
Thallium,7440-28-0†	-10.6	-0.01495 mg/L	0.000527	-2.99030	mg/kg	0.105422	3.53%
Tin,7440-31-5†	-102.1	-0.01697 mg/L	0.000587	-3.39489	mg/kg	0.117364	3.46%
Titanium,7440-32-6†	64195.5	0.17648 mg/L	0.002316	35.2965	mg/kg	0.46329	1.31%
Vanadium,7440-62-2†	7018.5	0.07117 mg/L	0.000858	14.2338	mg/kg	0.17152	1.21%
Zinc,7440-66-6†	8497.0	0.08443 mg/L	0.000368	16.8853	mg/kg	0.07354	0.44%
Zirconium,7440-67-7†	3491.0	0.00577 mg/L	0.000210	1.15432	mg/kg	0.041946	3.63%

==========

Sequence No.: 130
Sample ID: 20803042701
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 114
Date Collected: 3/6/2008 12:47:06 AM
Data Type: Reprocessed on 3/6/2008 10:56:18 AM

Initial Sample Vol:
Sample Prep Vol: 50 mL

Sample MPT05-SB01-04-022808

Mean Data: 20803042701

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ar 363.268 A	60303.5	72.9371	%	0.30056				0.41%
Ar 420.067 R	2039311.3	83.9695	%	0.12698				0.15%
Scandium-IS	1722069.0	85.0031	%	0.37036				0.44%
Yttrium,7440-65-5A	890850.3	87.0282	%	0.35762				0.41%
Yttrium,7440-65-5R	140376.8	93.8784	%	1.21797				1.30%
Aluminum,7429-90-5†	31823.3	30.1727	mg/L	0.49487	1206.91	mg/kg	19.795	1.64%
Antimony,7440-36-0†	16.8	0.00932	mg/L	0.002378	0.37292	mg/kg	0.095100	25.50%
Arsenic,7440-38-2†	8.9	0.00843	mg/L	0.002016	0.33722	mg/kg	0.080621	23.91%
Barium,7440-39-3†	27857.2	0.19234	mg/L	0.001598	7.69341	mg/kg	0.063908	0.83%
Beryllium,7440-41-7†	5850.2	0.00151	mg/L	0.000048	0.06032	mg/kg	0.001908	3.16%
Boron,7440-42-8†	1733.4	0.07197	mg/L	0.001319	2.87872	mg/kg	0.052773	1.83%
Cadmium,7440-43-9†	-821.0	-0.00672	mg/L	0.000105	-0.26894	mg/kg	0.004201	1.56%
Calcium,7440-70-2†	4949286.4	990.187	mg/L	7.4952	39607.5	mg/kg	299.81	0.76%
Chromium,7440-47-3†	9339.2	0.08772	mg/L	0.000693	3.50876	mg/kg	0.027716	0.79%
Cobalt,7440-48-4†	293.0	0.00603	mg/L	0.000388	0.24111	mg/kg	0.015513	6.43%
Copper,7440-50-8†	15322.3	0.06156	mg/L	0.000221	2.46237	mg/kg	0.008829	0.36%
Iron,7439-89-6†	356786.1	46.2228	mg/L	0.77713	1848.91	mg/kg	31.085	1.68%
Lead,7439-92-1†	521.0	0.07601	mg/L	0.001203	3.04038	mg/kg	0.048110	1.58%
Lithium,7439-93-2†	2290.2	0.04938	mg/L	0.000614	1.97505	mg/kg	0.024568	1.24%
Magnesium,7439-95-4†	17448.9	13.3146	mg/L	0.21163	532.583	mg/kg	8.4652	1.59%
Manganese, 7439-96-5†	173798.8	0.37043	mg/L	0.001719	14.8171	mg/kg	0.06877	0.46%
Molybdenum,7439-98-7†	85.2	0.00374	mg/L	0.001155	0.14968	mg/kg	0.046213	30.87%
Nickel,7440-02-0†	1012.2	0.02377	mg/L	0.000759	0.95076	mg/kg	0.030345	3.19%
Potassium,7440-09-7†	4709.4	2.21888	mg/L	0.038229	88.7553	mg/kg	1.52914	1.72%

Arsenic rep. result 0.36 mg/kg

$$\left(\frac{0.00843\ mg}{L}\right)\left(\frac{50\ ml}{1.25\ g}\right)\left(\frac{1}{.941}\right) = 0.36\ mg/kg$$

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**S. BALLARD**	**DATE:**	**MAY 6, 2008**
FROM:	**EDWARD SEDLMYER**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- SVOC/PCB**
CTO 010, NAVSTA MAYPORT
SDG 208030427

SAMPLES: 33 / Solid / SVOC

MPT04-SB02-05-022908	MPT04-SB02-07-022908	MPT04-SB02-09-022908
MPT04-SB02-11-022908	MPT04-SB03-05-022908	MPT04-SB03-07-022908
MPT04-SB03-09-022908	MPT04-SB03-11-022908	MPT04-SB04-05-022908
MPT04-SB04-07-022908	MPT04-SB04-09-022908	MPT04-SB04-11-022908
MPT05-SB01-04-022808	MPT05-SB02-04-022808	MPT05-SB02-06-022808
MPT05-SB02-08-022808	MPT05-SB02-10-022808	MPT05-SB03-04-022808
MPT05-SB03-06-022808	MPT05-SB04-04-022808	MPT05-SB04-06-022808
MPT05-SB04-08-022808	MPT05-SB04-10-022808	MPT05-SS02-01-022808
MPT05-SS04-01-022808	MPT05-SS05-01-030308	MPT05-SS06-01-030308
MPT05-SS07-01-030308	MPT05-SS08-01-030308	MPT05-SS09-01-030308
MPT05-SS10-01-030308	MPT05-SS11-01-030308	MPT05-SS12-01-030308

11 / Solid / PCB

MPT05-SB01-04-022808	MPT05-SB02-04-022808	MPT05-SB02-06-022808
MPT05-SB02-08-022808	MPT05-SB02-10-022808	MPT05-SB03-04-022808
MPT05-SB03-06-022808	MPT05-SB04-04-022808	MPT05-SB04-06-022808
MPT05-SB04-08-022808	MPT05-SB04-10-022808	

OVERVIEW

The sample set for NAVSTA MAYPORT, SDG 208030427 consists of thirty three (33) solid environmental samples. All samples were analyzed for select semivolatile organic compounds (SVOC) and Aroclor-1254.

The samples were collected by Tetra Tech NUS on February 28 and 29, 2008 and analyzed by Gulf Coast Analytical Laboratories, Inc. All analyses were conducted in accordance with SW-846 Methods 8270C and 8082 analysis and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • GC/MS Tuning
* • Initial/continuing calibrations
* • Laboratory method blank results
  • Surrogate Recoveries
* • Blank Spike/Blank Spike Duplicate Results
* • Matrix Spike/Matrix Spike Duplicate Results
* • Internal Standards
* • Compound Quantitation

* • Compound Identification
* • Detection Limits

The symbol (*) indicates that quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

Semivolatiles

The surrogate nitrobenzene-d5 had a percent recovery greater than the quality control limit for sample MPT04-SB04-05-022908. No action was taken on this basis because only one surrogate in the base/neutral fraction was outside of criteria.

The surrogate 2-fluorobiphenyl had a percent recovery greater than the quality control limit for sample MPT04-SB04-11-022908. No action was taken on this basis because only one surrogate in the base/neutral fraction was outside of criteria.

The surrogate nitrobenzene-d5 had a percent recovery greater than the quality control limit for the method blank (MB580708) and laboratory control sample duplicate (LCSD580710). No action was taken on this basis because QC samples are not qualified.

Polychlorinated biphenyls

Samples MPT05-SB03-04-022808, MPT05-SB03-06-022808, and MPT05-SB04-04-022808 were analyzed at 10, 10, and 50 times dilutions, respectively. Elevated detection limits were reported due to the dilutions. The dilutions were required because of high concentrations of hydrocarbon background in the samples.

Additional Comments: Positive results less than the reporting limit (RL) were qualified as estimated, J, due to uncertainty near the detection limit.

The laboratory reported dibenzo(a,h)anthracene for 13 samples and bis(2-ethylhexyl)phthalate for ~~14~~ 12 samples. The reviewer was unable to reconcile the compound list that each sample was to be analyzed for. No action was taken on this basis.

5-8-08
JAJ

EXECUTIVE SUMMARY

Laboratory Performance Issues: Surrogate recovery noncompliances in two samples did not result in the qualification of the any data.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October 1999), and Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (January 2006). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the DoD QSM for Environmental Laboratories.

Tetra Tech NUS

Edward Sedlmyer
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT04-SB02-05-022908	nsample	MPT04-SB02-07-022908	nsample	MPT04-SB02-09-022908
samp_date	2/28/2008	samp_date	2/28/2008	samp_date	2/28/2008
lab_id	20803042714	lab_id	20803042715	lab_id	20803042716
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	94.1	Pct_Solids	84.9	Pct_Solids	76.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	4.44	U	
BENZO(A)PYRENE	7.56	U	
BENZO(B)FLUORANTHENE	45.7	J	P
BENZO(K)FLUORANTHENE	9.33	U	
BIS(2-ETHYLHEXYL)PHTHALATE	40.7	U	
CHRYSENE	6.62	U	
INDENO(1,2,3-CD)PYRENE	11	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	4.9	U	
BENZO(A)PYRENE	8.35	U	
BENZO(B)FLUORANTHENE	11.4	U	
BENZO(K)FLUORANTHENE	10.3	U	
BIS(2-ETHYLHEXYL)PHTHALATE	44.9	U	
CHRYSENE	7.31	U	
INDENO(1,2,3-CD)PYRENE	12.2	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	77.9	J	P
BENZO(A)PYRENE	38.2	J	P
BENZO(B)FLUORANTHENE	98.4	J	P
BENZO(K)FLUORANTHENE	38.5	J	P
BIS(2-ETHYLHEXYL)PHTHALATE	50.2	U	
CHRYSENE	86.6	J	P
INDENO(1,2,3-CD)PYRENE	220	J	P

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT04-SB02-11-022908	nsample	MPT04-SB03-05-022908	nsample	MPT04-SB03-07-022908
samp_date	2/28/2008	samp_date	2/28/2008	samp_date	2/28/2008
lab_id	20803042717	lab_id	20803042718	lab_id	20803042719
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	78.5	Pct_Solids	74.8	Pct_Solids	82.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	14	J	P
BENZO(A)PYRENE	9.06	U	
BENZO(B)FLUORANTHENE	60.2	J	P
BENZO(K)FLUORANTHENE	11.2	U	
BIS(2-ETHYLHEXYL)PHTHALATE	48.7	U	
CHRYSENE	14.5	J	P
INDENO(1,2,3-CD)PYRENE	13.2	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.53	U	
BENZO(A)PYRENE	9.43	U	
BENZO(B)FLUORANTHENE	12.9	U	
BENZO(K)FLUORANTHENE	11.6	U	
BIS(2-ETHYLHEXYL)PHTHALATE	50.7	U	
CHRYSENE	8.25	U	
INDENO(1,2,3-CD)PYRENE	13.8	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.01	U	
BENZO(A)PYRENE	8.54	U	
BENZO(B)FLUORANTHENE	11.7	U	
BENZO(K)FLUORANTHENE	10.5	U	
BIS(2-ETHYLHEXYL)PHTHALATE	45.9	U	
CHRYSENE	7.48	U	
INDENO(1,2,3-CD)PYRENE	12.5	U	

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT04-SB03-09-022908	nsample	MPT04-SB03-11-022908	nsample	MPT04-SB04-05-022908
samp_date	2/28/2008	samp_date	2/28/2008	samp_date	2/28/2008
lab_id	20803042720	lab_id	20803042721	lab_id	20803042722
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	70.3	Pct_Solids	48.5	Pct_Solids	87.2
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	9.46	J	P
BENZO(A)PYRENE	10.1	U	
BENZO(B)FLUORANTHENE	61.2	J	P
BENZO(K)FLUORANTHENE	12.4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	54.1	U	
CHRYSENE	8.81	U	
INDENO(1,2,3-CD)PYRENE	14.7	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	8.53	U	
BENZO(A)PYRENE	14.5	U	
BENZO(B)FLUORANTHENE	84.8	J	P
BENZO(K)FLUORANTHENE	17.9	U	
BIS(2-ETHYLHEXYL)PHTHALATE	78.2	U	
CHRYSENE	12.7	U	
INDENO(1,2,3-CD)PYRENE	21.2	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	4.74	U	
BENZO(A)PYRENE	8.08	U	
BENZO(B)FLUORANTHENE	11.1	U	
BENZO(K)FLUORANTHENE	9.97	U	
BIS(2-ETHYLHEXYL)PHTHALATE	43.4	U	
CHRYSENE	7.07	U	
INDENO(1,2,3-CD)PYRENE	11.8	U	

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT04-SB04-07-022908	nsample	MPT04-SB04-09-022908	nsample	MPT04-SB04-11-022908
samp_date	2/28/2008	samp_date	2/28/2008	samp_date	2/28/2008
lab_id	20803042723	lab_id	20803042724	lab_id	20803042725
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	80.8	Pct_Solids	76.5	Pct_Solids	81.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.15	U	
BENZO(A)PYRENE	8.78	U	
BENZO(B)FLUORANTHENE	53.7	J	P
BENZO(K)FLUORANTHENE	10.8	U	
BIS(2-ETHYLHEXYL)PHTHALATE	47.2	U	
CHRYSENE	7.69	U	
INDENO(1,2,3-CD)PYRENE	12.8	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.44	U	
BENZO(A)PYRENE	9.27	U	
BENZO(B)FLUORANTHENE	57	J	P
BENZO(K)FLUORANTHENE	11.4	U	
BIS(2-ETHYLHEXYL)PHTHALATE	214	J	P
CHRYSENE	8.12	U	
INDENO(1,2,3-CD)PYRENE	13.5	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.12	U	
BENZO(A)PYRENE	8.73	U	
BENZO(B)FLUORANTHENE	50.9	J	P
BENZO(K)FLUORANTHENE	10.8	U	
BIS(2-ETHYLHEXYL)PHTHALATE	46.9	U	
CHRYSENE	7.64	U	
INDENO(1,2,3-CD)PYRENE	12.7	U	

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT05-SB01-04-022808	nsample	MPT05-SB02-04-022808	nsample	MPT05-SB02-06-022808
samp_date	2/28/2008	samp_date	2/28/2008	samp_date	2/28/2008
lab_id	20803042701	lab_id	20803042703	lab_id	20803042704
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	94.1	Pct_Solids	81.4	Pct_Solids	89.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	4.45	U	
BENZO(A)PYRENE	7.59	U	
BENZO(B)FLUORANTHENE	10.4	U	
BENZO(K)FLUORANTHENE	9.36	U	
CHRYSENE	6.64	U	
DIBENZO(A,H)ANTHRACENE	5.79	U	
INDENO(1,2,3-CD)PYRENE	11.1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.13	U	
BENZO(A)PYRENE	8.75	U	
BENZO(B)FLUORANTHENE	52.6	J	P
BENZO(K)FLUORANTHENE	10.8	U	
CHRYSENE	7.66	U	
DIBENZO(A,H)ANTHRACENE	6.68	U	
INDENO(1,2,3-CD)PYRENE	12.8	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	13.7	J	P
BENZO(A)PYRENE	7.9	U	
BENZO(B)FLUORANTHENE	61.2	J	P
BENZO(K)FLUORANTHENE	10.2	J	P
CHRYSENE	19.8	J	P
DIBENZO(A,H)ANTHRACENE	6.03	U	
INDENO(1,2,3-CD)PYRENE	11.5	U	

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT05-SB02-08-022808	nsample	MPT05-SB02-10-022808	nsample	MPT05-SB03-04-022808
samp_date	2/28/2008	samp_date	2/28/2008	samp_date	2/28/2008
lab_id	20803042705	lab_id	20803042706	lab_id	20803042707
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	86.1	Pct_Solids	82.2	Pct_Solids	78.4
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	4.82	U	
BENZO(A)PYRENE	8.21	U	
BENZO(B)FLUORANTHENE	11.2	U	
BENZO(K)FLUORANTHENE	10.1	U	
CHRYSENE	7.19	U	
DIBENZO(A,H)ANTHRACENE	6.27	U	
INDENO(1,2,3-CD)PYRENE	12	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.1	U	
BENZO(A)PYRENE	8.69	U	
BENZO(B)FLUORANTHENE	51.6	J	P
BENZO(K)FLUORANTHENE	10.7	U	
CHRYSENE	7.6	U	
DIBENZO(A,H)ANTHRACENE	6.63	U	
INDENO(1,2,3-CD)PYRENE	12.7	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.27	U	
BENZO(A)PYRENE	8.99	U	
BENZO(B)FLUORANTHENE	52.3	J	P
BENZO(K)FLUORANTHENE	11.1	U	
CHRYSENE	7.87	U	
DIBENZO(A,H)ANTHRACENE	6.86	U	
INDENO(1,2,3-CD)PYRENE	13.1	U	

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SDG: 208030427 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT05-SB03-06-022808
samp_date	2/28/2008
lab_id	20803042708
qc_type	NM
units	UG/KG
Pct_Solids	72.1
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.82	U	
BENZO(A)PYRENE	9.91	U	
BENZO(B)FLUORANTHENE	58.2	J	P
BENZO(K)FLUORANTHENE	12.2	U	
CHRYSENE	8.68	U	
DIBENZO(A,H)ANTHRACENE	7.57	U	
INDENO(1,2,3-CD)PYRENE	14.5	U	

nsample	MPT05-SB04-04-022808
samp_date	2/28/2008
lab_id	20803042710
qc_type	NM
units	UG/KG
Pct_Solids	51.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	8.19	U	
BENZO(A)PYRENE	14	U	
BENZO(B)FLUORANTHENE	116	J	P
BENZO(K)FLUORANTHENE	17.2	U	
CHRYSENE	12.2	U	
DIBENZO(A,H)ANTHRACENE	10.6	U	
INDENO(1,2,3-CD)PYRENE	253	J	P

nsample	MPT05-SB04-06-022808
samp_date	2/28/2008
lab_id	20803042711
qc_type	NM
units	UG/KG
Pct_Solids	77.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.37	U	
BENZO(A)PYRENE	9.15	U	
BENZO(B)FLUORANTHENE	12.5	U	
BENZO(K)FLUORANTHENE	11.3	U	
CHRYSENE	8.01	U	
DIBENZO(A,H)ANTHRACENE	6.98	U	
INDENO(1,2,3-CD)PYRENE	13.4	U	

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT05-SB04-08-022808	nsample	MPT05-SB04-10-022808	nsample	MPT05-SS02-01-022808
samp_date	2/28/2008	samp_date	2/28/2008	samp_date	2/28/2008
lab_id	20803042712	lab_id	20803042713	lab_id	20803042702
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	78.5	Pct_Solids	79.0	Pct_Solids	90.4
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.32	U	
BENZO(A)PYRENE	9.07	U	
BENZO(B)FLUORANTHENE	12.4	U	
BENZO(K)FLUORANTHENE	11.2	U	
CHRYSENE	7.94	U	
DIBENZO(A,H)ANTHRACENE	6.92	U	
INDENO(1,2,3-CD)PYRENE	13.2	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.25	U	
BENZO(A)PYRENE	8.95	U	
BENZO(B)FLUORANTHENE	51.9	J	P
BENZO(K)FLUORANTHENE	11	U	
CHRYSENE	7.84	U	
DIBENZO(A,H)ANTHRACENE	6.83	U	
INDENO(1,2,3-CD)PYRENE	13.1	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	146	J	P
BENZO(A)PYRENE	85	J	P
BENZO(B)FLUORANTHENE	158	J	P
BENZO(K)FLUORANTHENE	75.6	J	P
CHRYSENE	155	J	P
DIBENZO(A,H)ANTHRACENE	119	J	P
INDENO(1,2,3-CD)PYRENE	264	J	P

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SDG: 208030427 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT05-SS04-01-022808
samp_date	2/28/2008
lab_id	20803042709
qc_type	NM
units	UG/KG
Pct_Solids	90.1
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	22	J	P
BENZO(A)PYRENE	9.2	J	P
BENZO(B)FLUORANTHENE	66.4	J	P
BENZO(K)FLUORANTHENE	16.5	J	P
CHRYSENE	36.5	J	P
DIBENZO(A,H)ANTHRACENE	6.03	U	
INDENO(1,2,3-CD)PYRENE	161	J	P

nsample	MPT05-SS05-01-030308
samp_date	3/3/2008
lab_id	20803042726
qc_type	NM
units	UG/KG
Pct_Solids	82.2
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.06	U	
BENZO(A)PYRENE	8.63	U	
BENZO(B)FLUORANTHENE	11.8	U	
BENZO(K)FLUORANTHENE	10.6	U	
CHRYSENE	7.55	U	
INDENO(1,2,3-CD)PYRENE	12.6	U	

nsample	MPT05-SS06-01-030308
samp_date	3/3/2008
lab_id	20803042727
qc_type	NM
units	UG/KG
Pct_Solids	82.9
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.02	U	
BENZO(A)PYRENE	8.56	U	
BENZO(B)FLUORANTHENE	51.4	J	P
BENZO(K)FLUORANTHENE	10.6	U	
CHRYSENE	7.49	U	
INDENO(1,2,3-CD)PYRENE	12.5	U	

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT05-SS07-01-030308	nsample	MPT05-SS08-01-030308	nsample	MPT05-SS09-01-030308
samp_date	3/3/2008	samp_date	3/3/2008	samp_date	3/3/2008
lab_id	20803042728	lab_id	20803042729	lab_id	20803042730
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	89.5	Pct_Solids	77.8	Pct_Solids	96.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	4.65	U	
BENZO(A)PYRENE	7.92	U	
BENZO(B)FLUORANTHENE	47.5	J	P
BENZO(K)FLUORANTHENE	9.78	U	
CHRYSENE	6.94	U	
INDENO(1,2,3-CD)PYRENE	11.6	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.33	U	
BENZO(A)PYRENE	9.08	U	
BENZO(B)FLUORANTHENE	12.4	U	
BENZO(K)FLUORANTHENE	11.2	U	
CHRYSENE	7.95	U	
INDENO(1,2,3-CD)PYRENE	13.3	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	4.36	U	
BENZO(A)PYRENE	7.44	U	
BENZO(B)FLUORANTHENE	10.2	U	
BENZO(K)FLUORANTHENE	9.18	U	
CHRYSENE	6.51	U	
INDENO(1,2,3-CD)PYRENE	10.9	U	

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT05-SS10-01-030308	nsample	MPT05-SS11-01-030308	nsample	MPT05-SS12-01-030308
samp_date	3/3/2008	samp_date	3/3/2008	samp_date	3/3/2008
lab_id	20803042731	lab_id	20803042732	lab_id	20803042733
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	89.0	Pct_Solids	80.7	Pct_Solids	81.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	74.2	J	P
BENZO(A)PYRENE	80.5	J	P
BENZO(B)FLUORANTHENE	118	J	P
BENZO(K)FLUORANTHENE	41	J	P
CHRYSENE	65.9	J	P
INDENO(1,2,3-CD)PYRENE	266	J	P

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.14	U	
BENZO(A)PYRENE	8.76	U	
BENZO(B)FLUORANTHENE	51.3	J	P
BENZO(K)FLUORANTHENE	10.8	U	
CHRYSENE	7.67	U	
INDENO(1,2,3-CD)PYRENE	12.8	U	

Parameter	Result	Val Qual	Qual Code
BENZO(A)ANTHRACENE	5.16	U	
BENZO(A)PYRENE	8.79	U	
BENZO(B)FLUORANTHENE	51	J	P
BENZO(K)FLUORANTHENE	10.8	U	
CHRYSENE	7.69	U	
INDENO(1,2,3-CD)PYRENE	12.8	U	

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	MPT05-SB01-04-022808	nsample	MPT05-SB02-04-022808	nsample	MPT05-SB02-06-022808
samp_date	2/28/2008	samp_date	2/28/2008	samp_date	2/28/2008
lab_id	20803042701	lab_id	20803042703	lab_id	20803042704
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	94.1	Pct_Solids	81.4	Pct_Solids	89.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
AROCLOR-1254	194			

Parameter	Result	Lab Qual	Val Qual	Qual Code
AROCLOR-1254	11.7	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
AROCLOR-1254	10.5	U	U	

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	MPT05-SB02-08-022808	nsample	MPT05-SB02-10-022808	nsample	MPT05-SB03-04-022808
samp_date	2/28/2008	samp_date	2/28/2008	samp_date	2/28/2008
lab_id	20803042705	lab_id	20803042706	lab_id	20803042707
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	86.1	Pct_Solids	82.2	Pct_Solids	78.4
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
AROCLOR-1254	10.9	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
AROCLOR-1254	11.5	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
AROCLOR-1254	121	U	U	

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	MPT05-SB03-06-022808	nsample	MPT05-SB04-04-022808	nsample	MPT05-SB04-06-022808
samp_date	2/28/2008	samp_date	2/28/2008	samp_date	2/28/2008
lab_id	20803042708	lab_id	20803042710	lab_id	20803042711
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	72.1	Pct_Solids	51.0	Pct_Solids	77.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
AROCLOR-1254	130	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
AROCLOR-1254	933	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
AROCLOR-1254	12.1	U	U	

PROJ_NO: 00203

SDG: 208030427 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	MPT05-SB04-08-022808	nsample	MPT05-SB04-10-022808
samp_date	2/28/2008	samp_date	2/28/2008
lab_id	20803042712	lab_id	20803042713
qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG
Pct_Solids	78.5	Pct_Solids	79.0
DUP_OF:		DUP_OF:	

Parameter	Result	Lab Qual	Val Qual	Qual Code
AROCLOR-1254	12.1	U	U	

Parameter	Result	Lab Qual	Val Qual	Qual Code
AROCLOR-1254	11.9	U	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.1 Units: g

Level: (low/med)

% Moisture: 5.9 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT04-SB02-05-022908

Contract:

Lab File ID: 2080310/d3400

Lab Sample ID: 20803042714

Date Collected: 02/28/08 Time: 1112

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/10/08 Time: 2026

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 368921

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
56-55-3	Benzo(a)anthracene	4.44	U	4.44	349
50-32-8	Benzo(a)pyrene	7.56	U	7.56	106
205-99-2	Benzo(b)fluoranthene	45.7	I	10.3	349
207-08-9	Benzo(k)fluoranthene	9.33	U	9.33	349
117-81-7	bis(2-ethylhexyl)phthalate	40.7	U	40.7	349
218-01-9	Chrysene	6.62	U	6.62	349
193-39-5	Indeno(1,2,3-cd)pyrene	11.0	U	11.0	349

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.2 Units: g

Level: (low/med)

% Moisture: 15.1 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT04-SB02-07-022908

Contract:

Lab File ID: 2080312/d3496

Lab Sample ID: 20803042715

Date Collected: 02/28/08 Time: 1121

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/12/08 Time: 1644

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 369042

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	4.90	U	4.90	386
50-32-8	Benzo(a)pyrene	8.35	U	8.35	117
205-99-2	Benzo(b)fluoranthene	11.4	U	11.4	386
207-08-9	Benzo(k)fluoranthene	10.3	U	10.3	386
117-81-7	bis(2-ethylhexyl)phthalate	44.9	U	44.9	386
218-01-9	Chrysene	7.31	U	7.31	386
193-39-5	Indeno(1,2,3-cd)pyrene	12.2	U	12.2	386

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.2 Units: g

Level: (low/med)

% Moisture: 24.0 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT04-SB02-09-022908

Contract:

Lab File ID: 2080311/d3430

Lab Sample ID: 20803042716

Date Collected: 02/28/08 Time: 1128

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/11/08 Time: 1341

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 368956

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	77.9	I	5.48	431
50-32-8	Benzo(a)pyrene	38.2	I	9.33	131
205-99-2	Benzo(b)fluoranthene	98.4	I	12.8	431
207-08-9	Benzo(k)fluoranthene	38.5	I	11.5	431
117-81-7	bis(2-ethylhexyl)phthalate	50.2	U	50.2	431
218-01-9	Chrysene	86.6	I	8.17	431
193-39-5	Indeno(1,2,3-cd)pyrene	220	I	13.6	431

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.1 Units: g

Level: (low/med)

% Moisture: 21.5 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT04-SB02-11-022908

Contract:

Lab File ID: 2080311/d3433

Lab Sample ID: 20803042717

Date Collected: 02/28/08 Time: 1135

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/11/08 Time: 1425

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 368956

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
56-55-3	Benzo(a)anthracene	14.0	I	5.32	419
50-32-8	Benzo(a)pyrene	9.06	U	9.06	127
205-99-2	Benzo(b)fluoranthene	60.2	I	12.4	419
207-08-9	Benzo(k)fluoranthene	11.2	U	11.2	419
117-81-7	bis(2-ethylhexyl)phthalate	48.7	U	48.7	419
218-01-9	Chrysene	14.5	I	7.93	419
193-39-5	Indeno(1,2,3-cd)pyrene	13.2	U	13.2	419

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.4 Units: g

Level: (low/med)

% Moisture: 25.3 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT04-SB03-05-022908

Contract:

Lab File ID: 2080311/d3432

Lab Sample ID: 20803042718

Date Collected: 02/28/08 Time: 1309

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/11/08 Time: 1410

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 368956

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	5.53	U	5.53	436
50-32-8	Benzo(a)pyrene	9.43	U	9.43	132
205-99-2	Benzo(b)fluoranthene	12.9	U	12.9	436
207-08-9	Benzo(k)fluoranthene	11.6	U	11.6	436
117-81-7	bis(2-ethylhexyl)phthalate	50.7	U	50.7	436
218-01-9	Chrysene	8.25	U	8.25	436
193-39-5	Indeno(1,2,3-cd)pyrene	13.8	U	13.8	436

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.3 Units: g

Level: (low/med)

% Moisture: 17.2 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT04-SB03-07-022908

Contract:

Lab File ID: 2080312/d3497

Lab Sample ID: 20803042719

Date Collected: 02/28/08 Time: 1314

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/12/08 Time: 1658

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 369042

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	5.01	U	5.01	395
50-32-8	Benzo(a)pyrene	8.54	U	8.54	120
205-99-2	Benzo(b)fluoranthene	11.7	U	11.7	395
207-08-9	Benzo(k)fluoranthene	10.5	U	10.5	395
117-81-7	bis(2-ethylhexyl)phthalate	45.9	U	45.9	395
218-01-9	Chrysene	7.48	U	7.48	395
193-39-5	Indeno(1,2,3-cd)pyrene	12.5	U	12.5	395

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.3 Units: g

Level: (low/med)

% Moisture: 29.7 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT04-SB03-09-022908

Contract:

Lab File ID: 2080312/d3498

Lab Sample ID: 20803042720

Date Collected: 02/28/08 Time: 1339

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/12/08 Time: 1713

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 369042

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
56-55-3	Benzo(a)anthracene	9.46	I	5.90	465
50-32-8	Benzo(a)pyrene	10.1	U	10.1	141
205-99-2	Benzo(b)fluoranthene	61.2	I	13.8	465
207-08-9	Benzo(k)fluoranthene	12.4	U	12.4	465
117-81-7	bis(2-ethylhexyl)phthalate	54.1	U	54.1	465
218-01-9	Chrysene	8.81	U	8.81	465
193-39-5	Indeno(1,2,3-cd)pyrene	14.7	U	14.7	465

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.4 Units: g

Level: (low/med)

% Moisture: 51.5 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT04-SB03-11-022908

Contract:

Lab File ID: 2080312/d3499

Lab Sample ID: 20803042721

Date Collected: 02/28/08 Time: 1405

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/12/08 Time: 1727

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368642 Analytical Batch: 369042

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
56-55-3	Benzo(a)anthracene	8.53	U	8.53	672
50-32-8	Benzo(a)pyrene	14.5	U	14.5	204
205-99-2	Benzo(b)fluoranthene	84.8	I	19.9	672
207-08-9	Benzo(k)fluoranthene	17.9	U	17.9	672
117-81-7	bis(2-ethylhexyl)phthalate	78.2	U	78.2	672
218-01-9	Chrysene	12.7	U	12.7	672
193-39-5	Indeno(1,2,3-cd)pyrene	21.2	U	21.2	672

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.4 Units: g

Level: (low/med)

% Moisture: 12.8 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT04-SB04-05-022908

Contract:

Lab File ID: 2080312/d3480

Lab Sample ID: 20803042722

Date Collected: 02/28/08 Time: 1438

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/12/08 Time: 1211

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368642 Analytical Batch: 369042

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	4.74	U	4.74	373
50-32-8	Benzo(a)pyrene	8.08	U	8.08	113
205-99-2	Benzo(b)fluoranthene	11.1	U	11.1	373
207-08-9	Benzo(k)fluoranthene	9.97	U	9.97	373
117-81-7	bis(2-ethylhexyl)phthalate	43.4	U	43.4	373
218-01-9	Chrysene	7.07	U	7.07	373
193-39-5	Indeno(1,2,3-cd)pyrene	11.8	U	11.8	373

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.2 Units: g

Level: (low/med)

% Moisture: 19.2 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT04-SB04-07-022908

Contract:

Lab File ID: 2080312/d3500

Lab Sample ID: 20803042723

Date Collected: 02/28/08 Time: 1442

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/12/08 Time: 1742

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368642 Analytical Batch: 369042

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
56-55-3	Benzo(a)anthracene	5.15	U	5.15	406
50-32-8	Benzo(a)pyrene	8.78	U	8.78	123
205-99-2	Benzo(b)fluoranthene	53.7	I	12.0	406
207-08-9	Benzo(k)fluoranthene	10.8	U	10.8	406
117-81-7	bis(2-ethylhexyl)phthalate	47.2	U	47.2	406
218-01-9	Chrysene	7.69	U	7.69	406
193-39-5	Indeno(1,2,3-cd)pyrene	12.8	U	12.8	406

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.2 Units: g

Level: (low/med)

% Moisture: 23.5 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT04-SB04-09-022908

Contract:

Lab File ID: 2080311/d3440

Lab Sample ID: 20803042724

Date Collected: 02/28/08 Time: 1453

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/11/08 Time: 1607

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368642 Analytical Batch: 368956

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	5.44	U	5.44	429
50-32-8	Benzo(a)pyrene	9.27	U	9.27	130
205-99-2	Benzo(b)fluoranthene	57.0	I	12.7	429
207-08-9	Benzo(k)fluoranthene	11.4	U	11.4	429
117-81-7	bis(2-ethylhexyl)phthalate	214	I	49.9	429
218-01-9	Chrysene	8.12	U	8.12	429
193-39-5	Indeno(1,2,3-cd)pyrene	13.5	U	13.5	429

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 18.2 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT04-SB04-11-022908

Contract:

Lab File ID: 2080312/d3481

Lab Sample ID: 20803042725

Date Collected: 02/28/08 Time: 1508

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/12/08 Time: 1225

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368642 Analytical Batch: 369042

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	5.12	U	5.12	403
50-32-8	Benzo(a)pyrene	8.73	U	8.73	122
205-99-2	Benzo(b)fluoranthene	50.9	I	11.9	403
207-08-9	Benzo(k)fluoranthene	10.8	U	10.8	403
117-81-7	bis(2-ethylhexyl)phthalate	46.9	U	46.9	403
218-01-9	Chrysene	7.64	U	7.64	403
193-39-5	Indeno(1,2,3-cd)pyrene	12.7	U	12.7	403

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 5.9 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SB01-04-022808

Contract:

Lab File ID: 2080310/d3387

Lab Sample ID: 20803042701

Date Collected: 02/28/08 Time: 1010

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/10/08 Time: 1717

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 368921

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	4.45	U	4.45	351
50-32-8	Benzo(a)pyrene	7.59	U	7.59	106
205-99-2	Benzo(b)fluoranthene	10.4	U	10.4	351
207-08-9	Benzo(k)fluoranthene	9.36	U	9.36	351
218-01-9	Chrysene	6.64	U	6.64	351
53-70-3	Dibenz(a,h)anthracene	5.79	U	5.79	351
193-39-5	Indeno(1,2,3-cd)pyrene	11.1	U	11.1	351

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.1 Units: g

Level: (low/med)

% Moisture: 18.6 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SB02-04-022808

Contract:

Lab File ID: 2080310/d3389

Lab Sample ID: 20803042703

Date Collected: 02/28/08 Time: 1106

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/10/08 Time: 1746

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 368921

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	5.13	U	5.13	404
50-32-8	Benzo(a)pyrene	8.75	U	8.75	123
205-99-2	Benzo(b)fluoranthene	52.6	I	12.0	404
207-08-9	Benzo(k)fluoranthene	10.8	U	10.8	404
218-01-9	Chrysene	7.66	U	7.66	404
53-70-3	Dibenz(a,h)anthracene	6.68	U	6.68	404
193-39-5	Indeno(1,2,3-cd)pyrene	12.8	U	12.8	404

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.2 Units: g

Level: (low/med)

% Moisture: 10.2 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SB02-06-022808

Contract:

Lab File ID: 2080312/d3492

Lab Sample ID: 20803042704

Date Collected: 02/28/08 Time: 1113

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/12/08 Time: 1546

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 369042

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
56-55-3	Benzo(a)anthracene	13.7	I	4.63	365
50-32-8	Benzo(a)pyrene	7.90	U	7.90	111
205-99-2	Benzo(b)fluoranthene	61.2	I	10.8	365
207-08-9	Benzo(k)fluoranthene	10.2	I	9.74	365
218-01-9	Chrysene	19.8	I	6.91	365
53-70-3	Dibenz(a,h)anthracene	6.03	U	6.03	365
193-39-5	Indeno(1,2,3-cd)pyrene	11.5	U	11.5	365

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.3 Units: g

Level: (low/med)

% Moisture: 13.9 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SB02-08-022808

Contract:

Lab File ID: 2080312/d3493

Lab Sample ID: 20803042705

Date Collected: 02/28/08 Time: 1118

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/12/08 Time: 1600

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 369042

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	4.82	U	4.82	379
50-32-8	Benzo(a)pyrene	8.21	U	8.21	115
205-99-2	Benzo(b)fluoranthene	11.2	U	11.2	379
207-08-9	Benzo(k)fluoranthene	10.1	U	10.1	379
218-01-9	Chrysene	7.19	U	7.19	379
53-70-3	Dibenz(a,h)anthracene	6.27	U	6.27	379
193-39-5	Indeno(1,2,3-cd)pyrene	12.0	U	12.0	379

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 17.8 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SB02-10-022808

Contract:

Lab File ID: 2080310/d3392

Lab Sample ID: 20803042706

Date Collected: 02/28/08 Time: 1127

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/10/08 Time: 1830

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 368921

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
56-55-3	Benzo(a)anthracene	5.10	U	5.10	402
50-32-8	Benzo(a)pyrene	8.69	U	8.69	122
205-99-2	Benzo(b)fluoranthene	51.6	I	11.9	402
207-08-9	Benzo(k)fluoranthene	10.7	U	10.7	402
218-01-9	Chrysene	7.60	U	7.60	402
53-70-3	Dibenz(a,h)anthracene	6.63	U	6.63	402
193-39-5	Indeno(1,2,3-cd)pyrene	12.7	U	12.7	402

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.4 Units: g

Level: (low/med)

% Moisture: 21.6 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SB03-04-022808

Contract:

Lab File ID: 2080312/d3494

Lab Sample ID: 20803042707

Date Collected: 02/28/08 Time: 1153

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/12/08 Time: 1615

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 369042

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	5.27	U	5.27	415
50-32-8	Benzo(a)pyrene	8.99	U	8.99	126
205-99-2	Benzo(b)fluoranthene	52.3	I	12.3	415
207-08-9	Benzo(k)fluoranthene	11.1	U	11.1	415
218-01-9	Chrysene	7.87	U	7.87	415
53-70-3	Dibenz(a,h)anthracene	6.86	U	6.86	415
193-39-5	Indeno(1,2,3-cd)pyrene	13.1	U	13.1	415

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 28.0 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SB03-06-022808

Contract:

Lab File ID: 2080310/d3394

Lab Sample ID: 20803042708

Date Collected: 02/28/08 Time: 1230

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/10/08 Time: 1859

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 368921

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	5.82	U	5.82	458
50-32-8	Benzo(a)pyrene	9.91	U	9.91	139
205-99-2	Benzo(b)fluoranthene	58.2	I	13.6	458
207-08-9	Benzo(k)fluoranthene	12.2	U	12.2	458
218-01-9	Chrysene	8.68	U	8.68	458
53-70-3	Dibenz(a,h)anthracene	7.57	U	7.57	458
193-39-5	Indeno(1,2,3-cd)pyrene	14.5	U	14.5	458

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.1 Units: g

Level: (low/med)

% Moisture: 49.0 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SB04-04-022808

Contract:

Lab File ID: 2080310/d3396

Lab Sample ID: 20803042710

Date Collected: 02/28/08 Time: 1445

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/10/08 Time: 1928

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 368921

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
56-55-3	Benzo(a)anthracene	8.19	U	8.19	645
50-32-8	Benzo(a)pyrene	14.0	U	14.0	195
205-99-2	Benzo(b)fluoranthene	116	I	19.1	645
207-08-9	Benzo(k)fluoranthene	17.2	U	17.2	645
218-01-9	Chrysene	12.2	U	12.2	645
53-70-3	Dibenz(a,h)anthracene	10.6	U	10.6	645
193-39-5	Indeno(1,2,3-cd)pyrene	253	I	20.4	645

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.1 Units: g

Level: (low/med)

% Moisture: 22.2 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SB04-06-022808

Contract:

Lab File ID: 2080312/d3495

Lab Sample ID: 20803042711

Date Collected: 02/28/08 Time: 1501

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/12/08 Time: 1629

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 369042

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	5.37	U	5.37	423
50-32-8	Benzo(a)pyrene	9.15	U	9.15	128
205-99-2	Benzo(b)fluoranthene	12.5	U	12.5	423
207-08-9	Benzo(k)fluoranthene	11.3	U	11.3	423
218-01-9	Chrysene	8.01	U	8.01	423
53-70-3	Dibenz(a,h)anthracene	6.98	U	6.98	423
193-39-5	Indeno(1,2,3-cd)pyrene	13.4	U	13.4	423

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.1 Units: g

Level: (low/med)

% Moisture: 21.5 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SB04-08-022808

Contract:

Lab File ID: 2080311/d3429

Lab Sample ID: 20803042712

Date Collected: 02/28/08 Time: 1525

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/11/08 Time: 1327

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 368956

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
56-55-3	Benzo(a)anthracene	5.32	U	5.32	419
50-32-8	Benzo(a)pyrene	9.07	U	9.07	127
205-99-2	Benzo(b)fluoranthene	12.4	U	12.4	419
207-08-9	Benzo(k)fluoranthene	11.2	U	11.2	419
218-01-9	Chrysene	7.94	U	7.94	419
53-70-3	Dibenz(a,h)anthracene	6.92	U	6.92	419
193-39-5	Indeno(1,2,3-cd)pyrene	13.2	U	13.2	419

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.3 Units: g

Level: (low/med)

% Moisture: 21.0 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SB04-10-022808

Contract:

Lab File ID: 2080310/d3399

Lab Sample ID: 20803042713

Date Collected: 02/28/08 Time: 1531

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/10/08 Time: 2012

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 368921

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	5.25	U	5.25	414
50-32-8	Benzo(a)pyrene	8.95	U	8.95	125
205-99-2	Benzo(b)fluoranthene	51.9	I	12.3	414
207-08-9	Benzo(k)fluoranthene	11.0	U	11.0	414
218-01-9	Chrysene	7.84	U	7.84	414
53-70-3	Dibenz(a,h)anthracene	6.83	U	6.83	414
193-39-5	Indeno(1,2,3-cd)pyrene	13.1	U	13.1	414

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.2 Units: g

Level: (low/med)

% Moisture: 9.6 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SS02-01-022808

Contract:

Lab File ID: 2080310/d3388

Lab Sample ID: 20803042702

Date Collected: 02/28/08 Time: 1057

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/10/08 Time: 1732

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 368921

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	146	I	4.60	363
50-32-8	Benzo(a)pyrene	85.0	I	7.85	110
205-99-2	Benzo(b)fluoranthene	158	I	10.7	363
207-08-9	Benzo(k)fluoranthene	75.6	I	9.68	363
218-01-9	Chrysene	155	I	6.87	363
53-70-3	Dibenz(a,h)anthracene	119	I	5.99	363
193-39-5	Indeno(1,2,3-cd)pyrene	264	I	11.5	363

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.1 Units: g

Level: (low/med)

% Moisture: 9.9 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SS04-01-022808

Contract:

Lab File ID: 2080311/d3428

Lab Sample ID: 20803042709

Date Collected: 02/28/08 Time: 1435

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/11/08 Time: 1312

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 368956

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
56-55-3	Benzo(a)anthracene	22.0	I	4.63	365
50-32-8	Benzo(a)pyrene	9.20	I	7.90	111
205-99-2	Benzo(b)fluoranthene	66.4	I	10.8	365
207-08-9	Benzo(k)fluoranthene	16.5	I	9.74	365
218-01-9	Chrysene	36.5	I	6.91	365
53-70-3	Dibenz(a,h)anthracene	6.03	U	6.03	365
193-39-5	Indeno(1,2,3-cd)pyrene	161	I	11.5	365

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.2 Units: g

Level: (low/med)

% Moisture: 17.8 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SS05-01-030308

Contract:

Lab File ID: 2080312/d3482

Lab Sample ID: 20803042726

Date Collected: 03/03/08 Time: 1140

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/12/08 Time: 1240

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368642 Analytical Batch: 369042

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	5.06	U	5.06	399
50-32-8	Benzo(a)pyrene	8.63	U	8.63	121
205-99-2	Benzo(b)fluoranthene	11.8	U	11.8	399
207-08-9	Benzo(k)fluoranthene	10.6	U	10.6	399
218-01-9	Chrysene	7.55	U	7.55	399
193-39-5	Indeno(1,2,3-cd)pyrene	12.6	U	12.6	399

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.2 Units: g

Level: (low/med)

% Moisture: 17.2 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SS06-01-030308

Contract:

Lab File ID: 2080311/d3443

Lab Sample ID: 20803042727

Date Collected: 03/03/08 Time: 1157

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/11/08 Time: 1651

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368642 Analytical Batch: 368956

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	5.02	U	5.02	396
50-32-8	Benzo(a)pyrene	8.56	U	8.56	120
205-99-2	Benzo(b)fluoranthene	51.4	I	11.7	396
207-08-9	Benzo(k)fluoranthene	10.6	U	10.6	396
218-01-9	Chrysene	7.49	U	7.49	396
193-39-5	Indeno(1,2,3-cd)pyrene	12.5	U	12.5	396

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.2 Units: g

Level: (low/med)

% Moisture: 10.5 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SS07-01-030308

Contract:

Lab File ID: 2080312/d3483

Lab Sample ID: 20803042728

Date Collected: 03/03/08 Time: 1214

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/12/08 Time: 1254

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368642 Analytical Batch: 369042

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
56-55-3	Benzo(a)anthracene	4.65	U	4.65	366
50-32-8	Benzo(a)pyrene	7.92	U	7.92	111
205-99-2	Benzo(b)fluoranthene	47.5	I	10.8	366
207-08-9	Benzo(k)fluoranthene	9.78	U	9.78	366
218-01-9	Chrysene	6.94	U	6.94	366
193-39-5	Indeno(1,2,3-cd)pyrene	11.6	U	11.6	366

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.3 Units: g

Level: (low/med)

% Moisture: 22.2 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SS08-01-030308

Contract:

Lab File ID: 2080311/d3445

Lab Sample ID: 20803042729

Date Collected: 03/03/08 Time: 1226

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/11/08 Time: 1720

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368642 Analytical Batch: 368956

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	5.33	U	5.33	420
50-32-8	Benzo(a)pyrene	9.08	U	9.08	127
205-99-2	Benzo(b)fluoranthene	12.4	U	12.4	420
207-08-9	Benzo(k)fluoranthene	11.2	U	11.2	420
218-01-9	Chrysene	7.95	U	7.95	420
193-39-5	Indeno(1,2,3-cd)pyrene	13.3	U	13.3	420

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: 4.0 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SS09-01-030308

Contract:

Lab File ID: 2080312/d3484

Lab Sample ID: 20803042730

Date Collected: 03/03/08 Time: 1243

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/12/08 Time: 1309

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368642 Analytical Batch: 369042

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	4.36	U	4.36	344
50-32-8	Benzo(a)pyrene	7.44	U	7.44	104
205-99-2	Benzo(b)fluoranthene	10.2	U	10.2	344
207-08-9	Benzo(k)fluoranthene	9.18	U	9.18	344
218-01-9	Chrysene	6.51	U	6.51	344
193-39-5	Indeno(1,2,3-cd)pyrene	10.9	U	10.9	344

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.1 Units: g

Level: (low/med)

% Moisture: 11.0 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SS10-01-030308

Contract:

Lab File ID: 2080312/d3485

Lab Sample ID: 20803042731

Date Collected: 03/03/08 Time: 1259

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/12/08 Time: 1323

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368642 Analytical Batch: 369042

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	74.2	I	4.69	370
50-32-8	Benzo(a)pyrene	80.5	I	8.00	112
205-99-2	Benzo(b)fluoranthene	118	I	10.9	370
207-08-9	Benzo(k)fluoranthene	41.0	I	9.87	370
218-01-9	Chrysene	65.9	I	7.00	370
193-39-5	Indeno(1,2,3-cd)pyrene	266	I	11.7	370

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.3 Units: g

Level: (low/med)

% Moisture: 19.3 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SS11-01-030308

Contract:

Lab File ID: 2080312/d3486

Lab Sample ID: 20803042732

Date Collected: 03/03/08 Time: 1311

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/12/08 Time: 1338

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368642 Analytical Batch: 369042

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	5.14	U	5.14	405
50-32-8	Benzo(a)pyrene	8.76	U	8.76	123
205-99-2	Benzo(b)fluoranthene	51.3	I	12.0	405
207-08-9	Benzo(k)fluoranthene	10.8	U	10.8	405
218-01-9	Chrysene	7.67	U	7.67	405
193-39-5	Indeno(1,2,3-cd)pyrene	12.8	U	12.8	405

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.1 Units: g

Level: (low/med)

% Moisture: 19.0 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SS12-01-030308

Contract:

Lab File ID: 2080311/d3449

Lab Sample ID: 20803042733

Date Collected: 03/03/08 Time: 1328

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/11/08 Time: 1819

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368642 Analytical Batch: 368956

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	5.16	U	5.16	406
50-32-8	Benzo(a)pyrene	8.79	U	8.79	123
205-99-2	Benzo(b)fluoranthene	51.0	I	12.0	406
207-08-9	Benzo(k)fluoranthene	10.8	U	10.8	406
218-01-9	Chrysene	7.69	U	7.69	406
193-39-5	Indeno(1,2,3-cd)pyrene	12.8	U	12.8	406

FORM I SV-1

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30.2 Units: g
Level: (low/med) LOW
% Moisture: 5.9 decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 368529 Analytical Batch: 369050

Sample ID: MPT05-SB01-04-022808
Contract:
SAS No.: SDG No.: 208030427
Lab Sample ID: 20803042701
Date Collected: 02/28/08 Time: 1010
Date Received: 03/04/08
Date Extracted: 03/08/08
Date Analyzed: 03/11/08 Time: 2121
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS18A
Lab File ID: 2080311/sv18a014

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
11097-69-1	Aroclor-1254	194		10.0	42.2

FORM I ORG-1

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: 18.6 decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 368529 Analytical Batch: 369050

Sample ID: MPT05-SB02-04-022808
Contract:
SAS No.: SDG No.: 208030427
Lab Sample ID: 20803042703
Date Collected: 02/28/08 Time: 1106
Date Received: 03/04/08
Date Extracted: 03/08/08
Date Analyzed: 03/11/08 Time: 2139
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS18A
Lab File ID: 2080311/sv18a015

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
11097-69-1	Aroclor-1254	11.7	U	11.7	49.2

FORM I ORG-1

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30.3 Units: g
Level: (low/med) LOW
% Moisture: 10.2 decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 368529 Analytical Batch: 369050

Sample ID: MPT05-SB02-06-022808
Contract:
SAS No.: SDG No.: 208030427
Lab Sample ID: 20803042704
Date Collected: 02/28/08 Time: 1113
Date Received: 03/04/08
Date Extracted: 03/08/08
Date Analyzed: 03/11/08 Time: 2214
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS18A
Lab File ID: 2080311/sv18a017

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
11097-69-1	Aroclor-1254	10.5	U	10.5	44.1

FORM I ORG-1

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30.3 Units: g
Level: (low/med) LOW
% Moisture: 13.9 decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 368529 Analytical Batch: 369050

Sample ID: MPT05-SB02-08-022808
Contract:
SAS No.: SDG No.: 208030427
Lab Sample ID: 20803042705
Date Collected: 02/28/08 Time: 1118
Date Received: 03/04/08
Date Extracted: 03/08/08
Date Analyzed: 03/11/08 Time: 2233
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS18A
Lab File ID: 2080311/sv18a018

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
11097-69-1	Aroclor-1254	10.9	U	10.9	46.0

FORM I ORG-1

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30.1 Units: g
Level: (low/med) LOW
% Moisture: 17.8 decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 368529 Analytical Batch: 369050

Sample ID: MPT05-SB02-10-022808
Contract:
SAS No.: SDG No.: 208030427
Lab Sample ID: 20803042706
Date Collected: 02/28/08 Time: 1127
Date Received: 03/04/08
Date Extracted: 03/08/08
Date Analyzed: 03/11/08 Time: 2308
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS18A
Lab File ID: 2080311/sv18a020

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
11097-69-1	Aroclor-1254	11.5	U	11.5	48.5

FORM I ORG-1

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30.2 Units: g
Level: (low/med) LOW
% Moisture: 21.6 decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 368529 Analytical Batch: 369050

Sample ID: MPT05-SB03-04-022808
Contract:
SAS No.: SDG No.: 208030427
Lab Sample ID: 20803042707
Date Collected: 02/28/08 Time: 1153
Date Received: 03/04/08
Date Extracted: 03/08/08
Date Analyzed: 03/12/08 Time: 1340
Dilution Factor: 10 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS18A
Lab File ID: 2080311/sv18a042

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
11097-69-1	Aroclor-1254	121	U	121	507

FORM I ORG-1

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30.4 Units: g
Level: (low/med) LOW
% Moisture: 28.0 decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 368529 Analytical Batch: 369050

Sample ID: MPT05-SB03-06-022808
Contract:
SAS No.: SDG No.: 208030427
Lab Sample ID: 20803042708
Date Collected: 02/28/08 Time: 1230
Date Received: 03/04/08
Date Extracted: 03/08/08
Date Analyzed: 03/12/08 Time: 1358
Dilution Factor: 10 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS18A
Lab File ID: 2080311/sv18a043

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
11097-69-1	Aroclor-1254	130	U	130	548

FORM I ORG-1

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: 49.0 decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 368529 Analytical Batch: 369050

Sample ID: MPT05-SB04-04-022808
Contract:
SAS No.: SDG No.: 208030427
Lab Sample ID: 20803042710
Date Collected: 02/28/08 Time: 1445
Date Received: 03/04/08
Date Extracted: 03/08/08
Date Analyzed: 03/12/08 Time: 1415
Dilution Factor: 50 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS18A
Lab File ID: 2080311/sv18a044

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
11097-69-1	Aroclor-1254	933	U	933	3920

FORM I ORG-1

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30.4 Units: g
Level: (low/med) LOW
% Moisture: 22.2 decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 368529 Analytical Batch: 369050

Sample ID: MPT05-SB04-06-022808
Contract:
SAS No.: SDG No.: 208030427
Lab Sample ID: 20803042711
Date Collected: 02/28/08 Time: 1501
Date Received: 03/04/08
Date Extracted: 03/08/08
Date Analyzed: 03/12/08 Time: 0055
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS18A
Lab File ID: 2080311/sv18a026

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
11097-69-1	Aroclor-1254	12.1	U	12.1	50.8

FORM I ORG-1

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: 21.5 decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 368529 Analytical Batch: 369050

Sample ID: MPT05-SB04-08-022808
Contract:
SAS No.: SDG No.: 208030427
Lab Sample ID: 20803042712
Date Collected: 02/28/08 Time: 1525
Date Received: 03/04/08
Date Extracted: 03/08/08
Date Analyzed: 03/12/08 Time: 0113
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS18A
Lab File ID: 2080311/sv18a027

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
11097-69-1	Aroclor-1254	12.1	U	12.1	51.0

FORM I ORG-1

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30.3 Units: g
Level: (low/med) LOW
% Moisture: 21.0 decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 368529 Analytical Batch: 369050

Sample ID: MPT05-SB04-10-022808
Contract:
SAS No.: SDG No.: 208030427
Lab Sample ID: 20803042713
Date Collected: 02/28/08 Time: 1531
Date Received: 03/04/08
Date Extracted: 03/08/08
Date Analyzed: 03/12/08 Time: 0242
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS18A
Lab File ID: 2080311/sv18a032

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
11097-69-1	Aroclor-1254	11.9	U	11.9	50.2

FORM I ORG-1

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG 208030427

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	MPT05-SS07-01-030308	20803042728	NM	3/3/2008	3/4/2008	3/7/2008	1	3	4
M	MG/KG	MPT05-SB03-06-022808	20803042708	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SB04-04-022808	20803042710	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SB04-06-022808	20803042711	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SB04-08-022808	20803042712	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SB04-10-022808	20803042713	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SB03-04-022808	20803042707	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SS06-01-030308	20803042727	NM	3/3/2008	3/4/2008	3/7/2008	1	3	4
M	MG/KG	MPT05-SS02-01-022808	20803042702	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SS08-01-030308	20803042729	NM	3/3/2008	3/4/2008	3/8/2008	1	4	5
M	MG/KG	MPT05-SS09-01-030308	20803042730	NM	3/3/2008	3/4/2008	3/8/2008	1	4	5
M	MG/KG	MPT05-SS10-01-030308	20803042731	NM	3/3/2008	3/4/2008	3/8/2008	1	4	5
M	MG/KG	MPT05-SS11-01-030308	20803042732	NM	3/3/2008	3/4/2008	3/8/2008	1	4	5
M	MG/KG	MPT05-SS12-01-030308	20803042733	NM	3/3/2008	3/4/2008	3/8/2008	1	4	5
M	MG/KG	MPT04-SB02-05-022908	20803042714	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	MPT05-SS04-01-022808	20803042709	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT04-SB02-11-022908	20803042717	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT04-SB02-07-022908	20803042715	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SS05-01-030308	20803042726	NM	3/3/2008	3/4/2008	3/7/2008	1	3	4
M	MG/KG	MPT04-SB02-09-022908	20803042716	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SB02-10-022808	20803042706	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT04-SB03-05-022908	20803042718	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT04-SB03-07-022908	20803042719	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT04-SB03-09-022908	20803042720	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT04-SB03-11-022908	20803042721	NM	2/28/2008	3/4/2008	3/7/2008	5	3	8
M	MG/KG	MPT04-SB04-05-022908	20803042722	NM	2/28/2008	3/4/2008	3/7/2008	5	3	8
M	MG/KG	MPT05-SB02-08-022808	20803042705	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT04-SB04-07-022908	20803042723	NM	2/28/2008	3/4/2008	3/7/2008	5	3	8
M	MG/KG	MPT04-SB04-09-022908	20803042724	NM	2/28/2008	3/4/2008	3/7/2008	5	3	8
M	MG/KG	MPT04-SB04-11-022908	20803042725	NM	2/28/2008	3/4/2008	3/7/2008	5	3	8
M	MG/KG	MPT05-SB01-04-022808	20803042701	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SB02-04-022808	20803042703	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7
M	MG/KG	MPT05-SB02-06-022808	20803042704	NM	2/28/2008	3/4/2008	3/6/2008	5	2	7

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SIM		MPT05-SB02-08-022808	20803042705	NM	2/28/2008	3/6/2008	3/12/2008	7	6	13
SIM		MPT05-SB02-06-022808	20803042704	NM	2/28/2008	3/6/2008	3/12/2008	7	6	13
SIM		MPT05-SB02-04-022808	20803042703	NM	2/28/2008	3/6/2008	3/10/2008	7	4	11
SIM		MPT05-SB01-04-022808	20803042701	NM	2/28/2008	3/6/2008	3/10/2008	7	4	11
SIM		MPT04-SB04-11-022908	20803042725	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
SIM		MPT04-SB04-09-022908	20803042724	NM	2/28/2008	3/8/2008	3/11/2008	9	3	12
SIM		MPT04-SB04-07-022908	20803042723	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
SIM		MPT04-SB04-05-022908	20803042722	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
SIM		MPT04-SB03-11-022908	20803042721	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
SIM		MPT04-SB02-05-022908	20803042714	NM	2/28/2008	3/6/2008	3/10/2008	7	4	11
SIM		MPT04-SB02-11-022908	20803042717	NM	2/28/2008	3/6/2008	3/11/2008	7	5	12
SIM		MPT05-SB02-10-022808	20803042706	NM	2/28/2008	3/6/2008	3/10/2008	7	4	11
SIM		MPT04-SB02-09-022908	20803042716	NM	2/28/2008	3/6/2008	3/11/2008	7	5	12
SIM		MPT04-SB02-07-022908	20803042715	NM	2/28/2008	3/6/2008	3/12/2008	7	6	13
SIM		MPT04-SB03-09-022908	20803042720	NM	2/28/2008	3/6/2008	3/12/2008	7	6	13
SIM		MPT04-SB03-07-022908	20803042719	NM	2/28/2008	3/6/2008	3/12/2008	7	6	13
SIM		MPT05-SS11-01-030308	20803042732	NM	3/3/2008	3/8/2008	3/12/2008	5	4	9
SIM		MPT05-SB03-04-022808	20803042707	NM	2/28/2008	3/6/2008	3/12/2008	7	6	13

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SIM		MPT04-SB03-05-022908	20803042718	NM	2/28/2008	3/6/2008	3/11/2008	7	5	12
SIM		MPT05-SS12-01-030308	20803042733	NM	3/3/2008	3/8/2008	3/11/2008	5	3	8
SIM		MPT05-SS10-01-030308	20803042731	NM	3/3/2008	3/8/2008	3/12/2008	5	4	9
SIM		MPT05-SS09-01-030308	20803042730	NM	3/3/2008	3/8/2008	3/12/2008	5	4	9
SIM		MPT05-SS08-01-030308	20803042729	NM	3/3/2008	3/8/2008	3/11/2008	5	3	8
SIM		MPT05-SS07-01-030308	20803042728	NM	3/3/2008	3/8/2008	3/12/2008	5	4	9
SIM		MPT05-SS06-01-030308	20803042727	NM	3/3/2008	3/8/2008	3/11/2008	5	3	8
SIM		MPT05-SS04-01-022808	20803042709	NM	2/28/2008	3/6/2008	3/11/2008	7	5	12
SIM		MPT05-SS02-01-022808	20803042702	NM	2/28/2008	3/6/2008	3/10/2008	7	4	11
SIM		MPT05-SB04-10-022808	20803042713	NM	2/28/2008	3/6/2008	3/10/2008	7	4	11
SIM		MPT05-SB04-08-022808	20803042712	NM	2/28/2008	3/6/2008	3/11/2008	7	5	12
SIM		MPT05-SB03-06-022808	20803042708	NM	2/28/2008	3/6/2008	3/10/2008	7	4	11
SIM		MPT05-SB04-06-022808	20803042711	NM	2/28/2008	3/6/2008	3/12/2008	7	6	13
SIM		MPT05-SB04-04-022808	20803042710	NM	2/28/2008	3/6/2008	3/10/2008	7	4	11
SIM		MPT05-SS05-01-030308	20803042726	NM	3/3/2008	3/8/2008	3/12/2008	5	4	9
SIM	UG/KG	MPT04-SB03-09-022908	20803042720	NM	2/28/2008	3/6/2008	3/12/2008	7	6	13
SIM	UG/KG	MPT05-SB02-06-022808	20803042704	NM	2/28/2008	3/6/2008	3/12/2008	7	6	13
SIM	UG/KG	MPT05-SB02-04-022808	20803042703	NM	2/28/2008	3/6/2008	3/10/2008	7	4	11

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SIM	UG/KG	MPT05-SB01-04-022808	20803042701	NM	2/28/2008	3/6/2008	3/10/2008	7	4	11
SIM	UG/KG	MPT04-SB02-05-022908	20803042714	NM	2/28/2008	3/6/2008	3/10/2008	7	4	11
SIM	UG/KG	MPT04-SB02-07-022908	20803042715	NM	2/28/2008	3/6/2008	3/12/2008	7	6	13
SIM	UG/KG	MPT04-SB02-09-022908	20803042716	NM	2/28/2008	3/6/2008	3/11/2008	7	5	12
SIM	UG/KG	MPT04-SB02-11-022908	20803042717	NM	2/28/2008	3/6/2008	3/11/2008	7	5	12
SIM	UG/KG	MPT04-SB04-07-022908	20803042723	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
SIM	UG/KG	MPT04-SB03-07-022908	20803042719	NM	2/28/2008	3/6/2008	3/12/2008	7	6	13
SIM	UG/KG	MPT04-SB03-11-022908	20803042721	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
SIM	UG/KG	MPT04-SB04-05-022908	20803042722	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
SIM	UG/KG	MPT05-SB02-08-022808	20803042705	NM	2/28/2008	3/6/2008	3/12/2008	7	6	13
SIM	UG/KG	MPT05-SS04-01-022808	20803042709	NM	2/28/2008	3/6/2008	3/11/2008	7	5	12
SIM	UG/KG	MPT04-SB04-09-022908	20803042724	NM	2/28/2008	3/8/2008	3/11/2008	9	3	12
SIM	UG/KG	MPT04-SB03-05-022908	20803042718	NM	2/28/2008	3/6/2008	3/11/2008	7	5	12
SIM	UG/KG	MPT05-SS05-01-030308	20803042726	NM	3/3/2008	3/8/2008	3/12/2008	5	4	9
SIM	UG/KG	MPT05-SS12-01-030308	20803042733	NM	3/3/2008	3/8/2008	3/11/2008	5	3	8
SIM	UG/KG	MPT05-SS11-01-030308	20803042732	NM	3/3/2008	3/8/2008	3/12/2008	5	4	9
SIM	UG/KG	MPT05-SS10-01-030308	20803042731	NM	3/3/2008	3/8/2008	3/12/2008	5	4	9
SIM	UG/KG	MPT05-SS09-01-030308	20803042730	NM	3/3/2008	3/8/2008	3/12/2008	5	4	9

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SIM	UG/KG	MPT05-SS08-01-030308	20803042729	NM	3/3/2008	3/8/2008	3/11/2008	5	3	8
SIM	UG/KG	MPT05-SS07-01-030308	20803042728	NM	3/3/2008	3/8/2008	3/12/2008	5	4	9
SIM	UG/KG	MPT05-SB04-10-022808	20803042713	NM	2/28/2008	3/6/2008	3/10/2008	7	4	11
SIM	UG/KG	MPT05-SS06-01-030308	20803042727	NM	3/3/2008	3/8/2008	3/11/2008	5	3	8
SIM	UG/KG	MPT05-SB02-10-022808	20803042706	NM	2/28/2008	3/6/2008	3/10/2008	7	4	11
SIM	UG/KG	MPT05-SS02-01-022808	20803042702	NM	2/28/2008	3/6/2008	3/10/2008	7	4	11
SIM	UG/KG	MPT04-SB04-11-022908	20803042725	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
SIM	UG/KG	MPT05-SB04-08-022808	20803042712	NM	2/28/2008	3/6/2008	3/11/2008	7	5	12
SIM	UG/KG	MPT05-SB04-06-022808	20803042711	NM	2/28/2008	3/6/2008	3/12/2008	7	6	13
SIM	UG/KG	MPT05-SB04-04-022808	20803042710	NM	2/28/2008	3/6/2008	3/10/2008	7	4	11
SIM	UG/KG	MPT05-SB03-06-022808	20803042708	NM	2/28/2008	3/6/2008	3/10/2008	7	4	11
SIM	UG/KG	MPT05-SB03-04-022808	20803042707	NM	2/28/2008	3/6/2008	3/12/2008	7	6	13
PCB		MPT05-SB02-08-022808	20803042705	NM	2/28/2008	3/8/2008	3/11/2008	9	3	12
PCB		MPT05-SB02-06-022808	20803042704	NM	2/28/2008	3/8/2008	3/11/2008	9	3	12
PCB		MPT05-SB02-10-022808	20803042706	NM	2/28/2008	3/8/2008	3/11/2008	9	3	12
PCB		MPT05-SB03-04-022808	20803042707	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
PCB		MPT05-SB03-06-022808	20803042708	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
PCB		MPT05-SB04-04-022808	20803042710	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PCB		MPT05-SB04-06-022808	20803042711	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
PCB		MPT05-SB04-08-022808	20803042712	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
PCB		MPT05-SB04-10-022808	20803042713	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
PCB		MPT05-SB01-04-022808	20803042701	NM	2/28/2008	3/8/2008	3/11/2008	9	3	12
PCB		MPT05-SB02-04-022808	20803042703	NM	2/28/2008	3/8/2008	3/11/2008	9	3	12
PCB	UG/KG	MPT05-SB01-04-022808	20803042701	NM	2/28/2008	3/8/2008	3/11/2008	9	3	12
PCB	UG/KG	MPT05-SB04-10-022808	20803042713	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
PCB	UG/KG	MPT05-SB04-08-022808	20803042712	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
PCB	UG/KG	MPT05-SB04-06-022808	20803042711	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
PCB	UG/KG	MPT05-SB04-04-022808	20803042710	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
PCB	UG/KG	MPT05-SB03-06-022808	20803042708	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
PCB	UG/KG	MPT05-SB03-04-022808	20803042707	NM	2/28/2008	3/8/2008	3/12/2008	9	4	13
PCB	UG/KG	MPT05-SB02-10-022808	20803042706	NM	2/28/2008	3/8/2008	3/11/2008	9	3	12
PCB	UG/KG	MPT05-SB02-08-022808	20803042705	NM	2/28/2008	3/8/2008	3/11/2008	9	3	12
PCB	UG/KG	MPT05-SB02-04-022808	20803042703	NM	2/28/2008	3/8/2008	3/11/2008	9	3	12
PCB	UG/KG	MPT05-SB02-06-022808	20803042704	NM	2/28/2008	3/8/2008	3/11/2008	9	3	12

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 03/14/2008

GCAL Report 208030427

Deliver To	Tetra Tech NUS, Inc. 661 Andersen Drive Foster Plaza 7 Pittsburgh, PA 15220 912-921-7090
Attn	John Poremba

Customer Tetra Tech NUS, Inc.

Project NS Mayport-112G00203

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20803042701	MPT05-SB01-04-022808	Solid	02/28/2008 10:10	03/04/2008 12:30
20803042702	MPT05-SS02-01-022808	Solid	02/28/2008 10:57	03/04/2008 12:30
20803042703	MPT05-SB02-04-022808	Solid	02/28/2008 11:06	03/04/2008 12:30
20803042704	MPT05-SB02-06-022808	Solid	02/28/2008 11:13	03/04/2008 12:30
20803042705	MPT05-SB02-08-022808	Solid	02/28/2008 11:18	03/04/2008 12:30
20803042706	MPT05-SB02-10-022808	Solid	02/28/2008 11:27	03/04/2008 12:30
20803042707	MPT05-SB03-04-022808	Solid	02/28/2008 11:53	03/04/2008 12:30
20803042708	MPT05-SB03-06-022808	Solid	02/28/2008 12:30	03/04/2008 12:30
20803042709	MPT05-SS04-01-022808	Solid	02/28/2008 14:35	03/04/2008 12:30
20803042710	MPT05-SB04-04-022808	Solid	02/28/2008 14:45	03/04/2008 12:30
20803042711	MPT05-SB04-06-022808	Solid	02/28/2008 15:01	03/04/2008 12:30
20803042712	MPT05-SB04-08-022808	Solid	02/28/2008 15:25	03/04/2008 12:30
20803042713	MPT05-SB04-10-022808	Solid	02/28/2008 15:31	03/04/2008 12:30
20803042714	MPT04-SB02-05-022908	Solid	02/28/2008 11:12	03/04/2008 12:30
20803042715	MPT04-SB02-07-022908	Solid	02/28/2008 11:21	03/04/2008 12:30
20803042716	MPT04-SB02-09-022908	Solid	02/28/2008 11:28	03/04/2008 12:30
20803042717	MPT04-SB02-11-022908	Solid	02/28/2008 11:35	03/04/2008 12:30
20803042718	MPT04-SB03-05-022908	Solid	02/28/2008 13:09	03/04/2008 12:30
20803042719	MPT04-SB03-07-022908	Solid	02/28/2008 13:14	03/04/2008 12:30
20803042720	MPT04-SB03-09-022908	Solid	02/28/2008 13:39	03/04/2008 12:30
20803042721	MPT04-SB03-11-022908	Solid	02/28/2008 14:05	03/04/2008 12:30
20803042722	MPT04-SB04-05-022908	Solid	02/28/2008 14:38	03/04/2008 12:30
20803042723	MPT04-SB04-07-022908	Solid	02/28/2008 14:42	03/04/2008 12:30
20803042724	MPT04-SB04-09-022908	Solid	02/28/2008 14:53	03/04/2008 12:30
20803042725	MPT04-SB04-11-022908	Solid	02/28/2008 15:08	03/04/2008 12:30
20803042726	MPT05-SS05-01-030308	Solid	03/03/2008 11:40	03/04/2008 12:30
20803042727	MPT05-SS06-01-030308	Solid	03/03/2008 11:57	03/04/2008 12:30
20803042728	MPT05-SS07-01-030308	Solid	03/03/2008 12:14	03/04/2008 12:30
20803042729	MPT05-SS08-01-030308	Solid	03/03/2008 12:26	03/04/2008 12:30
20803042730	MPT05-SS09-01-030308	Solid	03/03/2008 12:43	03/04/2008 12:30
20803042731	MPT05-SS10-01-030308	Solid	03/03/2008 12:59	03/04/2008 12:30
20803042732	MPT05-SS11-01-030308	Solid	03/03/2008 13:11	03/04/2008 12:30
20803042733	MPT05-SS12-01-030308	Solid	03/03/2008 13:28	03/04/2008 12:30

CASE NARRATIVE

Client: Tetra Tech NUS, Inc. **Report:** 208030427

Contract Task Order No.: 0010

Site: NAVSTA Mayport

Project Manager: Shina Ballard

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

Additional Flags:

I – The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

SEMI-VOLATILES MASS SPECTROMETRY

Samples 20803042718 (MPT04-SB03-05-022908) and 20803042727 (MPT05-SS06-01-030308) exhibited a recovery for the internal standard 1,4-Dichlorobenzene d4 outside of the inclusive range of -50% to +100% relative to the midpoint of the initial calibration. However, no target analytes are quantitated using 1,4-Dichlorobenzene d4.

In the SW-846 8270C analysis of analytical batch 368921, Dibenz(a,h)anthracene has a %D of –26.2% in the CCV, which is outside of project criteria of ±20%.

In the SW-846 8270C analysis, the recovery for the surrogate, Terphenyl-d14 recovery was above the upper project control limit for samples MB (580708), LCSD (580710), and 20803042722 (MPT04-SB04-05-022908). The recovery for the surrogate, 2-Fluorobiphenyl was above the upper project control limit for sample 20803042725 (MPT04-SB04-11-022908).

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the SW-846 8082 analysis, samples 20803042707 (MPT05-SB03-04-022808), 20803042708 (MPT05-SB03-06-022808) and 20803042710 (MPT05-SB04-04-022808) required a dilution prior to analysis to eliminate interference from non-target background. The dilutions are reflected in elevated detection limits. The recovery for the surrogate is reported as "D", diluted out.

METALS

In the SW-846 6010B analysis, a chemical or physical interference necessitated a dilution for samples 20803042705 (MPT05-SB02-08-022808), 20803042706 (MPT05-SB02-10-022808), 20803042709 (MPT05-SS04-01-022808), 20803042711 (MPT05-SB04-06-022808), 20803042730 (MPT05-SS09-01-030308), and 20803042732 (MPT05-SS11-01-030308). This is reflected in elevated detection limits.

In the SW-846 6010B analysis for prep batch 368455, the MS recovery was outside the control limits for Vanadium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 101%. Vanadium is flagged "E", estimated on the serial dilution form due to the fact that the percent difference between the original sample result and the serial dilution result for the batch QC sample is greater than 10. A chemical or physical interference is suspected.

In the SW-846 6010B analysis for prep batch 368456, the MS recovery was outside the control limits for Barium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 87%. The Sample/Duplicate RPD for Barium was outside the control limits. The heterogeneous nature of the QC sample is believed to be responsible for this. The Sample/Duplicate RPD for Arsenic is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit. Barium is flagged "E", estimated on the serial dilution form due to the fact that the percent difference between the original sample result and the serial dilution result for the batch QC sample is greater than 10. A chemical or physical interference is suspected.

MISCELLANEOUS

DoH ELCP certification # E87854

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

CURTIS EKKER
DATA VALIDATION MANAGER
GCAL REPORT 208030427

THIS REPORT CONTAINS 1109 PAGES.

Tetra tech/4662/2080304 2/28/3/3/08

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 26289 | PAGE 1 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00203	NAVSTA Mayport	Shina Ballard	904-636-6125	GCAL / Liz Martin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		Donald Hardison	904-636-6125	7979 GSRI Avenue
		CARRIER/WAYBILL NUMBER		CITY, STATE
		8427 1834 3489		Baton Rouge, LA 70820

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G G

PRESERVATIVE USED: None None None

DATE YEAR 2008	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	6010B (As, V, Ba)	8270C (BAP Equ.)	8082A (Aroclor-1254)						COMMENTS
2/28	1010	MPT05-SB01-04-022808		3.5	4	So	G	2	X	X	X					1	Cool to 4°C
	1057	MPT05-SS02-01-022808		0.5	1			1	X	X						2	
	1106	MPT05-SB02-04-022808		3.5	4			2	X	X	X					3	
	1113	MPT05-SB02-06-022808		5.5	6			2	X	X	X					4	
	1118	MPT05-SB02-08-022808		7.5	8			2	X	X	X					5	
	1127	MPT05-SB02-10-022808		9.5	10			2	X	X	X					6	
	1153	MPT05-SB03-04-022808		3.5	4			2	X	X	X					7	
	1230	MPT05-SB03-06-022808		5.5	6			2	X	X	X					8	
	1435	MPT05-SS04-01-022808		0.5	1			1	X	X						9	
	1445	MPT05-SB04-04-022808		3.5	4			2	X	X	X					10	
	1501	MPT05-SB04-06-022808		5.5	6			2	X	X	X					11	
	1525	MPT05-SB04-08-022808		7.5	8			2	X	X	X					12	
	1531	MPT05-SB04-10-022808		9.5	10			2	X	X	X					13	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	3/3/08	1030	1. RECEIVED BY		
2. RELINQUISHED BY Fedex	3/4/08	1230	2. RECEIVED BY	3/4/08	1230
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

3

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

Tetra tech/4802/20080427/3-9-08

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 26290 | PAGE 2 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00203	NAVSTA Mayport	Shina Ballard	904-636-6125	GCAL / Liz Martin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		Donald Hardison	904-636-6125	7979 GSRI Avenue
		CARRIER/WAYBILL NUMBER		CITY, STATE
		8427 1834 3489		Baton Rouge, LA 70820

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: None None

DATE YEAR 2008	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	6010B (As, Ba)	8270C (BAP Equ.)							COMMENTS
2/28	1112	MPT04-SB02-05-022908		4.5	5	So	G	1	X	X						14	Cool to 4°C
	1121	MPT04-SB02-07-022908		6.5	7			1	X	X						15	
	1128	MPT04-SB02-09-022908		8.5	9			1	X	X						16	
	1135	MPT04-SB02-11-022908		10.5	11			1	X	X						17	
	1309	MPT04-SB03-05-022908		4.5	5			1	X	X						18	
	1314	MPT04-SB03-07-022908		6.5	7			1	X	X						19	
	1339	MPT04-SB03-09-022908		8.5	9			1	X	X						20	
	1405	MPT04-SB03-11-022908		10.5	11			1	X	X						21	
	1438	MPT04-SB04-05-022908		4.5	5			1	X	X						22	
	1442	MPT04-SB04-07-022908		6.5	7			1	X	X						23	
	1453	MPT04-SB04-09-022908		8.5	9			1	X	X						21	
	1508	MPT04-SB04-11-022908		10.5	11			1	X	X						25	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	3/3/08	1030	1. RECEIVED BY		
2. RELINQUISHED BY Fedex	3-4-08	1230	2. RECEIVED BY	3-4-08	1230
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

Tetra Tech/4602/2008030427/3-4-08

TETRA TECH NUS, INC. — **CHAIN OF CUSTODY** — **NUMBER** 26291 — **PAGE** 1 **OF** 1

PROJECT NO: 112G00203	FACILITY: NAVSTA Mayport	PROJECT MANAGER Shina Ballard	PHONE NUMBER 904-636-6125	LABORATORY NAME AND CONTACT: GCAL / Liz Martin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER Donald Hardison	PHONE NUMBER 904-636-6125	ADDRESS 7979 GSRI Avenue
		CARRIER/WAYBILL NUMBER 8427 1834 3478		CITY, STATE Baton Rouge, LA 70820

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: None None

DATE YEAR 2008	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: 6010B (As)	8270C (BAP Equ.)							COMMENTS
3/3	1140	MPT05-SS05-01-030308		0.5	1	SO	G	1	X	X						26	Cool to 4°C
	1157	MPT05-SS06-01-030308		0.5	1			1	X	X						27	
	1214	MPT05-SS07-01-030308		0.5	1			1	X	X						28	
	1226	MPT05-SS08-01-030308		0.5	1			1	X	X						29	
	1243	MPT05-SS09-01-030308		0.5	1			1	X	X						30	
	1259	MPT05-SS10-01-030308		0.5	1			1	X	X						31	
	1311	MPT05-SS11-01-030308		0.5	1			1	X	X						32	
	1328	MPT05-SS12-01-030308		0.5	1			1	X	X						33	

1. RELINQUISHED BY	DATE 3/3/08	TIME 1500	1. RECEIVED BY	DATE / TIME
2. RELINQUISHED BY Feley	DATE 3-4-08	TIME 1230	2. RECEIVED BY	DATE 3-4-08 / TIME 1230
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE / TIME

COMMENTS

3

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: GCAL

Lab Code: LA024 Case No.:

Lab File ID: 2080310/d3384

GC Column: RTX-5MS-30 ID: .25 (mm)

Instrument ID: MSSV5 Matrix: Soil

Level:

Sample ID: MB580171

Contract:

SAS No.: SDG No.: 208030427

Lab Sample ID: 580171 Date Extracted:

Date Analyzed: 03/10/08 Time: 1633

Method: SW-846 8270

Prep Batch: 368537 Analytical Batch: 368921

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS580172	580172	2080310/d3385	03/10/08	1648
2.	LCSD580173	580173	2080310/d3386	03/10/08	1702
3.	MPT05-SB01-04-022808	20803042701	2080310/d3387	03/10/08	1717
4.	MPT05-SS02-01-022808	20803042702	2080310/d3388	03/10/08	1732
5.	MPT05-SB02-04-022808	20803042703	2080310/d3389	03/10/08	1746
6.	MPT05-SB02-10-022808	20803042706	2080310/d3392	03/10/08	1830
7.	MPT05-SB03-06-022808	20803042708	2080310/d3394	03/10/08	1859
8.	MPT05-SB04-04-022808	20803042710	2080310/d3396	03/10/08	1928
9.	MPT05-SB04-10-022808	20803042713	2080310/d3399	03/10/08	2012
10.	MPT04-SB02-05-022908	20803042714	2080310/d3400	03/10/08	2026
11.	MPT05-SS04-01-022808	20803042709	2080311/d3428	03/11/08	1312
12.	MPT05-SB04-08-022808	20803042712	2080311/d3429	03/11/08	1327
13.	MPT04-SB02-09-022908	20803042716	2080311/d3430	03/11/08	1341
14.	MPT04-SB03-05-022908	20803042718	2080311/d3432	03/11/08	1410
15.	MPT04-SB02-11-022908	20803042717	2080311/d3433	03/11/08	1425
16.	MPT05-SB02-06-022808	20803042704	2080312/d3492	03/12/08	1546
17.	MPT05-SB02-08-022808	20803042705	2080312/d3493	03/12/08	1600
18.	MPT05-SB03-04-022808	20803042707	2080312/d3494	03/12/08	1615
19.	MPT05-SB04-06-022808	20803042711	2080312/d3495	03/12/08	1629
20.	MPT04-SB02-07-022908	20803042715	2080312/d3496	03/12/08	1644
21.	MPT04-SB03-07-022908	20803042719	2080312/d3497	03/12/08	1658
22.	MPT04-SB03-09-022908	20803042720	2080312/d3498	03/12/08	1713

FORM IV SV

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MB580171

Contract:

Lab File ID: 2080310/d3384

Lab Sample ID: 580171

Date Collected: Time:

Date Received:

Date Extracted:

Date Analyzed: 03/10/08 Time: 1633

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 368921

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	4.19	U	4.19	330
205-99-2	Benzo(b)fluoranthene	9.77	U	9.77	330
207-08-9	Benzo(k)fluoranthene	8.81	U	8.81	330
50-32-8	Benzo(a)pyrene	7.14	U	7.14	100
117-81-7	bis(2-ethylhexyl)phthalate	38.4	U	38.4	330
218-01-9	Chrysene	6.25	U	6.25	330
53-70-3	Dibenz(a,h)anthracene	5.45	U	5.45	330
193-39-5	Indeno(1,2,3-cd)pyrene	10.4	U	10.4	330

FORM I SV-1

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: GCAL

Lab Code: LA024 Case No.:

Lab File ID: 2080311/d3434

GC Column: RTX-5MS-30 ID: .25 (mm)

Instrument ID: MSSV5 Matrix: Soil

Level:

Sample ID: MB580708

Contract:

SAS No.: SDG No.: 208030427

Lab Sample ID: 580708 Date Extracted:

Date Analyzed: 03/11/08 Time: 1439

Method: SW-846 8270

Prep Batch: 368642 Analytical Batch: 368956

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	MPT04-SB04-09-022908	20803042724	2080311/d3440	03/11/08	1607
2.	MPT05-SS06-01-030308	20803042727	2080311/d3443	03/11/08	1651
3.	MPT05-SS08-01-030308	20803042729	2080311/d3445	03/11/08	1720
4.	MPT05-SS12-01-030308	20803042733	2080311/d3449	03/11/08	1819
5.	LCS580709	580709	2080312/d3478	03/12/08	1142
6.	LCSD580710	580710	2080312/d3479	03/12/08	1157
7.	MPT04-SB04-05-022908	20803042722	2080312/d3480	03/12/08	1211
8.	MPT04-SB04-11-022908	20803042725	2080312/d3481	03/12/08	1225
9.	MPT05-SS05-01-030308	20803042726	2080312/d3482	03/12/08	1240
10.	MPT05-SS07-01-030308	20803042728	2080312/d3483	03/12/08	1254
11.	MPT05-SS09-01-030308	20803042730	2080312/d3484	03/12/08	1309
12.	MPT05-SS10-01-030308	20803042731	2080312/d3485	03/12/08	1323
13.	MPT05-SS11-01-030308	20803042732	2080312/d3486	03/12/08	1338
14.	MPT04-SB03-11-022908	20803042721	2080312/d3499	03/12/08	1727
15.	MPT04-SB04-07-022908	20803042723	2080312/d3500	03/12/08	1742

FORM IV SV

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MB580708

Contract:

Lab File ID: 2080311/d3434

Lab Sample ID: 580708

Date Collected: Time:

Date Received:

Date Extracted:

Date Analyzed: 03/11/08 Time: 1439

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368642 Analytical Batch: 368956

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	4.19	U	4.19	330
205-99-2	Benzo(b)fluoranthene	9.77	U	9.77	330
207-08-9	Benzo(k)fluoranthene	8.81	U	8.81	330
50-32-8	Benzo(a)pyrene	7.14	U	7.14	100
117-81-7	bis(2-ethylhexyl)phthalate	38.4	U	38.4	330
218-01-9	Chrysene	6.25	U	6.25	330
193-39-5	Indeno(1,2,3-cd)pyrene	10.4	U	10.4	330

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Method: SW-846 8270 Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	SMC5	#	SMC6	#	TOT OUT
1.	MPT05-SB01-04-022808	57		63		38								0
2.	MPT05-SS02-01-022808	90		98		55								0
3.	MPT05-SB02-04-022808	82		92		55								0
4.	MPT05-SB02-06-022808	87		94		54								0
5.	MPT05-SB02-08-022808	90		98		57								0
6.	MPT05-SB02-10-022808	83		93		69								0
7.	MPT05-SB03-04-022808	93		96		53								0
8.	MPT05-SB03-06-022808	76		86		58								0
9.	MPT05-SS04-01-022808	89		99		93								0
10.	MPT05-SB04-04-022808	80		86		52								0
11.	MPT05-SB04-06-022808	81		90		59								0
12.	MPT05-SB04-08-022808	84		95		74								0
13.	MPT05-SB04-10-022808	79		84		61								0
14.	MPT04-SB02-05-022908	79		84		81								0
15.	MPT04-SB02-07-022908	80		88		80								0
16.	MPT04-SB02-09-022908	80		90		85								0
17.	MPT04-SB02-11-022908	84		92		81								0
18.	MPT04-SB03-05-022908	90		100		98								0
19.	MPT04-SB03-07-022908	75		84		52								0
20.	MPT04-SB03-09-022908	87		95		65								0
21.	MPT04-SB03-11-022908	80		85		92								0
22.	MPT04-SB04-05-022908	94		99		136	*							1
23.	MPT04-SB04-07-022908	92		97		103								0
24.	MPT04-SB04-09-022908	91		103		118								0
25.	MPT04-SB04-11-022908	99		110	*	111								1
26.	MPT05-SS05-01-030308	97		105		122								0
27.	MPT05-SS06-01-030308	85		96		101								0
28.	MPT05-SS07-01-030308	97		102		110								0
29.	MPT05-SS08-01-030308	94		102		114								0
30.	MPT05-SS09-01-030308	95		104		121								0
31.	MPT05-SS10-01-030308	96		105		103								0
32.	MPT05-SS11-01-030308	96		102		109								0
33.	MPT05-SS12-01-030308	80		88		93								0
34.	MB580171	91		97		85								0
35.	LCS580172	97		93		88								0
36.	LCSD580173	97		102		85								0
37.	LCS580709	89		94		122								0
38.	LCSD580710	94		95		131	*							1
39.	MB580708	89		98		131	*							1

FORM II SV-2

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Method: SW-846 8270 Level: (low/med) LOW

EPA SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	SMC5	#	SMC6	#	TOT OUT

		CONTROL LIMITS	
SMC 1	Nitrobenzene-d5	35	100
SMC 2	2-Fluorobiphenyl	45	105
SMC 3	Terphenyl-d14	30	125
SMC 4			
SMC 5			
SMC 6			

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

FORM II SV-2

3D
SOIL SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Contract: Analytical Method: SW-846 8270

Prep Batch: 368642 Analytical Batch.: 369042

Spike HSN : 580709

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Benzo(a)anthracene	ug/kg	3330	0	2970	89		50 - 110
Benzo(a)pyrene	ug/kg	3330	0	2290	69		50 - 110
Benzo(b)fluoranthene	ug/kg	3330	0	2020	61		45 - 115
Benzo(k)fluoranthene	ug/kg	3330	0	2580	77		45 - 125
Chrysene	ug/kg	3270	0	2810	86		55 - 110
Indeno(1,2,3-cd)pyrene	ug/kg	3330	0	2200	66		40 - 120
bis(2-ethylhexyl)phthalate	ug/kg	3330	0	2920	88		45 - 125

Spike Dupe HSN : 580710

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Benzo(a)anthracene	ug/kg	3330	3140	94		6		50 - 110	0 - 30
Benzo(a)pyrene	ug/kg	3330	2530	76		10		50 - 110	0 - 30
Benzo(b)fluoranthene	ug/kg	3330	2630	79		26		45 - 115	0 - 30
Benzo(k)fluoranthene	ug/kg	3330	2350	71		9		45 - 125	0 - 30
Chrysene	ug/kg	3270	2940	90		5		55 - 110	0 - 30
Indeno(1,2,3-cd)pyrene	ug/kg	3330	2300	69		4		40 - 120	0 - 30
bis(2-ethylhexyl)phthalate	ug/kg	3330	3240	97		10		45 - 125	0 - 30

RPD : 0 out of 7 outside limits

Spike Recovery: 0 out of 14 outside limits

FORM III SV-2

3D
SOIL SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Contract: Analytical Method: SW-846 8270

Prep Batch: 368537 Analytical Batch.: 368921

Spike HSN : 580172

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Benzo(a)anthracene	ug/kg	3330	0	3480	104		50 - 110
Benzo(a)pyrene	ug/kg	3330	0	2250	68		50 - 110
Benzo(b)fluoranthene	ug/kg	3330	0	2610	78		45 - 115
Benzo(k)fluoranthene	ug/kg	3330	0	2520	76		45 - 125
Chrysene	ug/kg	3270	0	3080	94		55 - 110
Dibenz(a,h)anthracene	ug/kg	3330	0	2120	64		40 - 125
Indeno(1,2,3-cd)pyrene	ug/kg	3330	0	2330	70		40 - 120
bis(2-ethylhexyl)phthalate	ug/kg	3330	0	3550	107		45 - 125

Spike Dupe HSN : 580173

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Benzo(a)anthracene	ug/kg	3330	3110	93		11		50 - 110	0 - 30
Benzo(a)pyrene	ug/kg	3330	2310	69		3		50 - 110	0 - 30
Benzo(b)fluoranthene	ug/kg	3330	2070	62		23		45 - 115	0 - 30
Benzo(k)fluoranthene	ug/kg	3330	2800	84		11		45 - 125	0 - 30
Chrysene	ug/kg	3270	3550	109		14		55 - 110	0 - 30
Dibenz(a,h)anthracene	ug/kg	3330	2350	71		10		40 - 125	0 - 30
Indeno(1,2,3-cd)pyrene	ug/kg	3330	3030	91		26		40 - 120	0 - 30
bis(2-ethylhexyl)phthalate	ug/kg	3330	3350	101		6		45 - 125	0 - 30

RPD : 0 out of 8 outside limits

Spike Recovery: 0 out of 16 outside limits

FORM III SV-2

5B

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECI

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Lab File ID: 2080308/d3225D DFTPP Injection Date: 03/08/08 Time: 0709

GC Column: RTX-5MS-30 ID: .25 (mm) Analytical Batch: 369172

Instrument ID: MSSV5

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*
51	30.0-60.0% of mass 198	36.38 ( ) ( )
68	Less thab 2% of mass 69	.57 (1.17) (1)
69	Mass 69 relative abundance	49.2 ( ) ( )
70	Less than 2.0% of mass 69	.22 (.45) (1)
127	40.0-60.0% of mass 198	49.04 ( ) ( )
197	Less than 1.0% of mass 198	.64 ( ) ( )
198	Base Peak, 100% relative abundance	100 ( ) ( )
199	5.0-9.0% of mass 198	6.77 ( ) ( )
275	10.0-30.0% of mass 198	27.08 ( ) ( )
365	Greater than 1.0% of mass 198	3.61 ( ) ( )
441	Present, but less than mass 443	12.86 ( ) ( )
442	40.0-100.0% of mass 198	89.16 ( ) ( )
443	17.0-23.0% of mass 442	16.67 (18.7) (2)

(1)-Value is % mass 69 (2)-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	*LAB SAMPLE ID*	*LAB FILE ID*	*DATE ANALYZED*	*TIME ANALYZED*
1.	STD050	1205	2080308/d3229d	03/08/08	0812
2.	STD010	1204	2080308/d3230d	03/08/08	0826
3.	STD080	1206	2080308/d3231d	03/08/08	0841
4.	STD120	1207	2080308/d3232d	03/08/08	0856
5.	STD160	1208	2080308/d3233d	03/08/08	0910
6.	STD200	1209	2080308/d3234d	03/08/08	0925
7.	STD002	1203	2080308/d3235d	03/08/08	0940
8.	STD001	1202	2080308/d3236d	03/08/08	0955
9.	STD.2	1201	2080308/d3237d	03/08/08	1009

FORM V SV

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-DEC-2007 12:10
End Cal Date : 08-MAR-2008 10:09
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV5.i/2080308.s.b/8270CE_05.m
Cal Date : 10-Mar-2008 16:07 rjo

Global Auto Calibration Mode = AUTO CALIBRATE ONLY

Calibration File Names:
Level 1: /var/chem/MSSV5.i/2080308.s.b/d3237.d
Level 2: /var/chem/MSSV5.i/2080308.s.b/d3236.d
Level 3: /var/chem/MSSV5.i/2080129.s.b/d2374.d
Level 4: /var/chem/MSSV5.i/2080214.s.b/d2917.d
Level 5: /var/chem/MSSV5.i/2080214.s.b/d2918.d
Level 6: /var/chem/MSSV5.i/2080204.s.b/d2543.d
Level 7: /var/chem/MSSV5.i/2080214.s.b/d2919.d
Level 8: /var/chem/MSSV5.i/2080204.s.b/d2545.d
Level 9: /var/chem/MSSV5.i/2071227.s.b/d1949.d

Compound	0.2000000 Level 1 / 120.0000 Level 7	1.0000 Level 2 / 160.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	10.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Crv Type	Crv Org	Coefficients b	m1	m2	%RSD or R^2
1 n-Nitrosodimethylamine	+++++	331	944	14219	54066	88957						
	+++++	+++++	+++++				LNR	NO	0.02625	0.21853		0.99744
2 Pyridine	+++++	+++++	+++++	0.27155	0.37849	0.28915						
	0.46519	0.20224	0.40940				AVG	N\A		0.33600		29.19778
5 Aniline	1408	6214	13158	75290	221069	301016						
	752996	+++++	+++++				LNR	NO	-0.05483	0.73798		0.99713

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-DEC-2007 12:10
End Cal Date : 08-MAR-2008 10:09
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV5.i/2080308.s.b/8270CE_05.m
Cal Date : 10-Mar-2008 16:07 rjo

Global Auto Calibration Mode = AUTO CALIBRATE ONLY

Compound	0.2000000 Level 1	1.0000 Level 2	2.0000 Level 3	10.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Crv Type	Crv Org	Coefficients b	m1	m2	%RSD or R^2
	120.0000 Level 7	160.0000 Level 8	200.0000 Level 9									
69 Pyrene	+++++	1.33099	1.33599	1.45939	1.20881	1.25393						
	1.29884	1.26402	1.24449				AVG	N\A		1.29956		5.99413
71 Butylbenzylphthalate	+++++	0.41713	0.56413	0.57064	0.56189	0.57465						
	0.58192	0.58210	0.57371				AVG	N\A		0.55327		10.02949
72 Benzo(a)anthracene	+++++	1.11989	1.22038	1.06477	1.09056	1.08294						
	1.12171	1.15367	1.15478				AVG	N\A		1.12609		4.42945
73 3,3'-Dichlorobenzidine	+++++	0.37880	0.46529	0.47041	0.42107	0.41816						
	0.39696	0.37862	0.38868				AVG	N\A		0.41475		8.78766
75 Chrysene	1.46092	1.27882	1.29821	1.33917	1.15533	1.17854						
	1.14722	1.14046	1.14096				AVG	N\A		1.23774		9.15689
76 bis(2-Ethylhexyl)phthalate	+++++	0.55936	0.76203	0.73591	0.76518	0.77456						
	0.77193	0.76900	0.76437				AVG	N\A		0.73779		9.90417
77 Di-n-octylphthalate +	+++++	+++++	1.06787	1.18548	1.31743	1.36194						
	1.34397	1.37337	1.39737				AVG	N\A		1.29249		9.34550

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-DEC-2007 12:10
End Cal Date : 08-MAR-2008 10:09
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV5.i/2080308.s.b/8270CE_05.m
Cal Date : 10-Mar-2008 16:07 rjo

Global Auto Calibration Mode = AUTO CALIBRATE ONLY

Compound	0.2000000 Level 1 / 120.0000 Level 7	1.0000 Level 2 / 160.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	10.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Crv Type	Crv Org	Coefficients b	m1	m2	%RSD or R^2
78 Benzo(b)fluoranthene	+++++	8016	25244	135627	874828	1474435						
	2341989	2498015	3341572				LNR	NO	0.03027	1.44951		0.99506
79 Benzo(k)fluoranthene	+++++	1.72278	1.94609	2.14576	1.87695	1.70872						
	1.82711	1.80019	1.57939				AVG	N\A		1.82587		9.37609
80 Benzo(a)pyrene +	0.65591	0.83806	1.03664	1.48092	1.44108	1.46253						
	1.42916	1.40644	1.42433				AVG	N\A		1.24167		25.30012
82 Indeno(1,2,3-cd)pyrene	+++++	4606	17698	102419	741247	1214845						
	2650461	2841308	3656506				QUA	NO	0.09056	0.92945	-0.03999	0.99640
83 Dibenzo(a,h)anthracene	+++++	7321	23451	128889	981721	1516857						
	2889766	3068415	3892399				LNR	NO	0.07122	1.72824		0.99925
84 Benzo(g,h,i)perylene	+++++	11173	33601	173829	1121762	1723723						
	3247989	3508347	4404287				LNR	NO	0.05912	1.95389		0.99928
85 2-Picoline	+++++	+++++	8482	47750	183777	290756						
	403948	582576	687222				QUA	NO	-0.08795	3.44918	0.02118	0.99755

75

5B

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECI

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab File ID: 2080310/d3362

DFTPP Injection Date: 03/10/08 Time: 1042

GC Column: RTX-5MS-30 ID: .25 (mm)

Analytical Batch: 368921

Instrument ID: MSSV5

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*
51	30.0-60.0% of mass 198	37.45 ( ) ( )
68	Less thab 2% of mass 69	.76 (1.54) (1)
69	Mass 69 relative abundance	49.8 ( ) ( )
70	Less than 2.0% of mass 69	.2 (.42) (1)
127	40.0-60.0% of mass 198	49.7 ( ) ( )
197	Less than 1.0% of mass 198	.56 ( ) ( )
198	Base Peak, 100% relative abundance	100 ( ) ( )
199	5.0-9.0% of mass 198	6.57 ( ) ( )
275	10.0-30.0% of mass 198	26.83 ( ) ( )
365	Greater than 1.0% of mass 198	3.8 ( ) ( )
441	Present, but less than mass 443	11.45 ( ) ( )
442	40.0-100.0% of mass 198	82.96 ( ) ( )
443	17.0-23.0% of mass 442	15.53 (18.73) (2)

(1)-Value is % mass 69 (2)-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	*LAB SAMPLE ID*	*LAB FILE ID*	*DATE ANALYZED*	*TIME ANALYZED*
1.	STD050	1400	2080310/d3363d	03/10/08	1057
2.	MB580171	580171	2080310/d3384	03/10/08	1633
3.	LCS580172	580172	2080310/d3385	03/10/08	1648
4.	LCSD580173	580173	2080310/d3386	03/10/08	1702
5.	MPT05-SB01-04-022808	20803042701	2080310/d3387	03/10/08	1717
6.	MPT05-SS02-01-022808	20803042702	2080310/d3388	03/10/08	1732
7.	MPT05-SB02-04-022808	20803042703	2080310/d3389	03/10/08	1746
8.	MPT05-SB02-10-022808	20803042706	2080310/d3392	03/10/08	1830
9.	MPT05-SB03-06-022808	20803042708	2080310/d3394	03/10/08	1859
10.	MPT05-SB04-04-022808	20803042710	2080310/d3396	03/10/08	1928
11.	MPT05-SB04-10-022808	20803042713	2080310/d3399	03/10/08	2012

FORM V SV

5B

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECI

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Lab File ID: 2080310/d3362 DFTPP Injection Date: 03/10/08 Time: 1042

GC Column: RTX-5MS-30 ID: .25 (mm) Analytical Batch: 368921

Instrument ID: MSSV5

12.	MPT04-SB02-05-022908	20803042714	2080310/d3400	03/10/08	2026

FORM V SV

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSSV5.i Injection Date: 10-MAR-2008 10:57
Lab File ID: d3363.d Init. Cal. Date(s): 03-DEC-2007 10-MAR-2008
Analysis Type: WATER Init. Cal. Times: 12:10 14:22
Lab Sample ID: 1400 Quant Type: ISTD
Method: /var/chem/MSSV5.i/2080310.s.b/8270CE_05.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
38 2-Chloronaphthalene	1.07123	1.09172	1.09172	0.050	1.91220	30.00000	Averaged
39 2-Nitroaniline	0.38431	0.39577	0.39577	0.050	2.98192	30.00000	Averaged
40 Dimethylphthalate	1.14583	1.15273	1.15273	0.050	0.60285	30.00000	Averaged
41 2,6-Dinitrotoluene	0.25992	0.27193	0.27193	0.050	4.62201	30.00000	Averaged
42 Acenaphthylene	1.61231	1.56140	1.56140	0.050	-3.15745	30.00000	Averaged
43 3-Nitroaniline	0.26954	0.29505	0.29505	0.050	9.46455	30.00000	Averaged
45 Acenaphthene +	1.04921	1.08859	1.08859	0.050	3.75307	20.00000	Averaged
46 2,4-Dinitrophenol ++	0.19509	0.20508	0.20508	0.050	5.12011	30.00000	Averaged
49 4-Nitrophenol ++	0.15707	0.16237	0.16237	0.050	3.36982	30.00000	Averaged
47 Dibenzofuran	1.52199	1.53616	1.53616	0.050	0.93116	30.00000	Averaged
48 2,4-Dinitrotoluene	0.35079	0.36476	0.36476	0.050	3.98483	30.00000	Averaged
50 Diethylphthalate	45.35031	50.00000	1.12533	0.050	-9.29939	30.00000	Quadratic
52 4-Chlorophenyl-phenylether	0.59853	0.59678	0.59678	0.050	-0.29282	30.00000	Averaged
51 Fluorene	1.16177	1.21517	1.21517	0.050	4.59617	30.00000	Averaged
53 4-Nitroaniline	0.27423	0.30555	0.30555	0.050	11.41816	30.00000	Averaged
54 4,6-Dinitro-o-cresol	0.13576	0.14100	0.14100	0.050	3.86276	30.00000	Averaged
55 N-nitrosodiphenylamine (1)+	0.49982	0.50110	0.50110	0.050	0.25569	20.00000	Averaged
56 Azobenzene	1.05454	1.01286	1.01286	0.050	-3.95259	30.00000	Averaged
$ 57 2,4,6-Tribromophenol	0.18427	0.19711	0.19711	0.050	6.96864	30.00000	Averaged
58 4-Bromophenyl-phenylether	0.18526	0.17878	0.17878	0.050	-3.49684	30.00000	Averaged
59 Hexachlorobenzene	0.23769	0.21979	0.21979	0.050	-7.53023	30.00000	Averaged
60 Pentachlorophenol +	0.12564	0.14041	0.14041	0.050	11.74860	20.00000	Averaged
62 Phenanthrene	0.95566	0.93431	0.93431	0.050	-2.23418	30.00000	Averaged
63 Anthracene	0.94996	0.93081	0.93081	0.050	-2.01550	30.00000	Averaged
64 Carbazole	0.87536	0.91607	0.91607	0.050	4.65065	30.00000	Averaged
65 Di-n-butylphthalate	1.01089	1.03040	1.03040	0.050	1.93042	30.00000	Averaged
67 Fluoranthene +	0.96858	1.05607	1.05607	0.050	9.03331	20.00000	Averaged
68 Benzidine	0.12334	0.12765	0.12765	0.050	3.49219	30.00000	Averaged
69 Pyrene	1.29956	1.19537	1.19537	0.050	-8.01729	30.00000	Averaged
$ 70 Terphenyl-d14	0.88351	0.80930	0.80930	0.050	-8.39880	30.00000	Averaged
71 Butylbenzylphthalate	0.55327	0.53443	0.53443	0.050	-3.40575	30.00000	Averaged
73 3,3'-Dichlorobenzidine	0.41475	0.39538	0.39538	0.050	-4.67003	30.00000	Averaged
72 Benzo(a)anthracene	1.12609	0.98022	0.98022	0.050	-12.95334	30.00000	Averaged
76 bis(2-Ethylhexyl)phthalate	0.73779	0.67366	0.67366	0.050	-8.69288	30.00000	Averaged
75 Chrysene	1.23774	1.26069	1.26069	0.050	1.85441	30.00000	Averaged
77 Di-n-octylphthalate +	1.29249	1.04203	1.04203	0.050	-19.37777	20.00000	Averaged

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSSV5.i Injection Date: 10-MAR-2008 10:57
Lab File ID: d3363.d Init. Cal. Date(s): 03-DEC-2007 10-MAR-2008
Analysis Type: WATER Init. Cal. Times: 12:10 14:22
Lab Sample ID: 1400 Quant Type: ISTD
Method: /var/chem/MSSV5.i/2080310.s.b/8270CE_05.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
78 Benzo(b)fluoranthene	42.57621	50.00000	1.19919	0.050	-14.84758	30.00000	Linear	
79 Benzo(k)fluoranthene	1.82587	2.03395	2.03395	0.050	11.39603	30.00000	Averaged	
80 Benzo(a)pyrene +	1.24167	1.18504	1.18504	0.050	-4.56136	20.00000	Averaged	
82 Indeno(1,2,3-cd)pyrene	50.89369	50.00000	1.07991	0.050	1.78738	30.00000	Quadratic	
83 Dibenzo(a,h)anthracene	36.91453	50.00000	1.17747	0.050	-26.17093	30.00000	Linear	
84 Benzo(g,h,i)perylene	42.64989	50.00000	1.57425	0.050	-14.70021	30.00000	Linear	
M 66 Total Methylphenol	1.48555	1.48313	1.48313	0.050	-0.16289	30.00000	Averaged	
91 Acetophenone	1.05880	1.06873	1.06873	0.050	0.93851	30.00000	Averaged	
155 Benzaldehyde	0.14253	0.15617	0.15617	0.050	9.56796	30.00000	Averaged	
156 Caprolactam	0.10002	0.10495	0.10495	0.050	4.92866	30.00000	Averaged	
157 Biphenyl	0.73735	0.70706	0.70706	0.050	-4.10705	30.00000	Averaged	
158 Atrazine	52.05258	50.00000	0.15440	0.050	4.10515	30.00000	Quadratic	
174 1,4-Dioxane	0.17809	0.05906	0.05906	0.050	-66.83820	30.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 6.23284
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

5B

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECI

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab File ID: 2080311/d3422

DFTPP Injection Date: 03/11/08 Time: 1141

GC Column: RTX-5MS-30 ID: .25 (mm)

Analytical Batch: 368956

Instrument ID: MSSV5

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*
51	30.0-60.0% of mass 198	36.96 ( ) ( )
68	Less thab 2% of mass 69	.73 (1.45) (1)
69	Mass 69 relative abundance	50.88 ( ) ( )
70	Less than 2.0% of mass 69	.35 (.7) (1)
127	40.0-60.0% of mass 198	49.35 ( ) ( )
197	Less than 1.0% of mass 198	.65 ( ) ( )
198	Base Peak, 100% relative abundance	100 ( ) ( )
199	5.0-9.0% of mass 198	6.37 ( ) ( )
275	10.0-30.0% of mass 198	26.48 ( ) ( )
365	Greater than 1.0% of mass 198	3.42 ( ) ( )
441	Present, but less than mass 443	12.95 ( ) ( )
442	40.0-100.0% of mass 198	87.52 ( ) ( )
443	17.0-23.0% of mass 442	16.54 (18.9) (2)

(1)-Value is % mass 69 (2)-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	*LAB SAMPLE ID*	*LAB FILE ID*	*DATE ANALYZED*	*TIME ANALYZED*
1.	STD050	1400	2080311/d3426	03/11/08	1243
2.	MPT05-SS04-01-022808	20803042709	2080311/d3428	03/11/08	1312
3.	MPT05-SB04-08-022808	20803042712	2080311/d3429	03/11/08	1327
4.	MPT04-SB02-09-022908	20803042716	2080311/d3430	03/11/08	1341
5.	MPT04-SB03-05-022908	20803042718	2080311/d3432	03/11/08	1410
6.	MPT04-SB02-11-022908	20803042717	2080311/d3433	03/11/08	1425
7.	MB580708	580708	2080311/d3434	03/11/08	1439
8.	MPT04-SB04-09-022908	20803042724	2080311/d3440	03/11/08	1607
9.	MPT05-SS06-01-030308	20803042727	2080311/d3443	03/11/08	1651
10.	MPT05-SS08-01-030308	20803042729	2080311/d3445	03/11/08	1720
11.	MPT05-SS12-01-030308	20803042733	2080311/d3449	03/11/08	1819

FORM V SV

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSSV5.i Injection Date: 11-MAR-2008 12:43
Lab File ID: d3426.d Init. Cal. Date(s): 08-MAR-2008 08-MAR-2008
Analysis Type: WATER Init. Cal. Times: 08:12 10:09
Lab Sample ID: 1400 Quant Type: ISTD
Method: /var/chem/MSSV5.i/2080311.s.b/8270CE_05dod.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
38 2-Chloronaphthalene	1.07123	1.08223	1.08223	0.050	1.02652	30.00000	Averaged
39 2-Nitroaniline	0.38431	0.41331	0.41331	0.050	7.54591	30.00000	Averaged
40 Dimethylphthalate	1.14583	1.25140	1.25140	0.050	9.21366	30.00000	Averaged
41 2,6-Dinitrotoluene	0.25992	0.28532	0.28532	0.050	9.77364	30.00000	Averaged
42 Acenaphthylene	51.15618	50.00000	1.50263	0.050	2.31236	30.00000	Linear
43 3-Nitroaniline	53.41481	50.00000	0.29882	0.050	6.82961	30.00000	Quadratic
45 Acenaphthene +	1.04921	1.11853	1.11853	0.050	6.60663	20.00000	Averaged
46 2,4-Dinitrophenol ++	0.19509	0.22298	0.22298	0.050	14.29135	30.00000	Averaged
49 4-Nitrophenol ++	0.15707	0.17571	0.17571	0.050	11.86188	30.00000	Averaged
47 Dibenzofuran	1.52199	1.59881	1.59881	0.050	5.04732	30.00000	Averaged
48 2,4-Dinitrotoluene	0.35079	0.39864	0.39864	0.050	13.64280	30.00000	Averaged
50 Diethylphthalate	50.06917	50.00000	1.22015	0.050	0.13834	30.00000	Quadratic
52 4-Chlorophenyl-phenylether	0.59853	0.63171	0.63171	0.050	5.54278	30.00000	Averaged
51 Fluorene	1.16177	1.26840	1.26840	0.050	9.17826	30.00000	Averaged
53 4-Nitroaniline	0.27423	0.31641	0.31641	0.050	15.37867	30.00000	Averaged
54 4,6-Dinitro-o-cresol	0.13576	0.15030	0.15030	0.050	10.71175	30.00000	Averaged
55 N-nitrosodiphenylamine (1)+	0.49982	0.52713	0.52713	0.050	5.46313	20.00000	Averaged
56 Azobenzene	1.05454	1.06520	1.06520	0.050	1.01112	30.00000	Averaged
$ 57 2,4,6-Tribromophenol	0.18427	0.21126	0.21126	0.050	14.64954	30.00000	Averaged
58 4-Bromophenyl-phenylether	0.18526	0.18776	0.18776	0.050	1.35119	30.00000	Averaged
59 Hexachlorobenzene	0.23769	0.23328	0.23328	0.050	-1.85673	30.00000	Averaged
60 Pentachlorophenol +	0.12564	0.14758	0.14758	0.050	17.46059	20.00000	Averaged
62 Phenanthrene	0.95566	0.96524	0.96524	0.050	1.00254	30.00000	Averaged
63 Anthracene	0.94996	0.97927	0.97927	0.050	3.08579	30.00000	Averaged
64 Carbazole	0.87536	0.91615	0.91615	0.050	4.66080	30.00000	Averaged
65 Di-n-butylphthalate	1.01089	1.15130	1.15130	0.050	13.89045	30.00000	Averaged
67 Fluoranthene +	0.96858	1.05328	1.05328	0.050	8.74526	20.00000	Averaged
68 Benzidine	0.12334	0.10723	0.10723	0.050	-13.06272	30.00000	Averaged
69 Pyrene	1.29956	1.24398	1.24398	0.050	-4.27679	30.00000	Averaged
$ 70 Terphenyl-d14	0.88351	0.86441	0.86441	0.050	-2.16207	30.00000	Averaged
71 Butylbenzylphthalate	0.55327	0.59757	0.59757	0.050	8.00718	30.00000	Averaged
73 3,3'-Dichlorobenzidine	0.41475	0.43419	0.43419	0.050	4.68854	30.00000	Averaged
72 Benzo(a)anthracene	1.12609	1.10038	1.10038	0.050	-2.28298	30.00000	Averaged
76 bis(2-Ethylhexyl)phthalate	0.73779	0.79825	0.79825	0.050	8.19389	30.00000	Averaged
75 Chrysene	1.23774	1.25076	1.25076	0.050	1.05194	30.00000	Averaged
77 Di-n-octylphthalate +	1.29249	1.36405	1.36405	0.050	5.53628	20.00000	Averaged

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSSV5.i
Lab File ID: d3426.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/MSSV5.i/2080311.s.b/8270CE_05dod.m

Injection Date: 11-MAR-2008 12:43
Init. Cal. Date(s): 08-MAR-2008 08-MAR-2008
Init. Cal. Times: 08:12 10:09
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
78 Benzo(b)fluoranthene	48.73983	50.00000	1.37787	0.050	-2.52035	30.00000	Linear
79 Benzo(k)fluoranthene	1.82587	1.86934	1.86934	0.050	2.38092	30.00000	Averaged
80 Benzo(a)pyrene +	50.63818	50.00000	1.44504	0.050	1.27635	30.00000	Linear
82 Indeno(1,2,3-cd)pyrene	55.21305	50.00000	1.18575	0.050	10.42611	30.00000	Quadratic
83 Dibenzo(a,h)anthracene	52.07702	50.00000	1.70155	0.050	4.15404	30.00000	Linear
84 Benzo(g,h,i)perylene	52.91578	50.00000	1.97542	0.050	5.83156	30.00000	Linear
M 66 Total Methylphenol	1.48555	1.61982	1.61982	0.050	9.03817	30.00000	Averaged
91 Acetophenone	1.05880	1.16690	1.16690	0.050	10.20978	30.00000	Averaged
155 Benzaldehyde	0.14253	0.16053	0.16053	0.050	12.62541	30.00000	Averaged
156 Caprolactam	0.10002	0.11389	0.11389	0.050	13.86492	30.00000	Averaged
157 Biphenyl	0.73735	0.72146	0.72146	0.050	-2.15451	30.00000	Averaged
158 Atrazine	42.18550	50.00000	0.12494	0.050	-15.62900	30.00000	Quadratic
174 1,4-Dioxane	0.17809	0.05016	0.05016	0.050	-71.83267	30.00000	Averaged <-

Average %D / Drift Results.

Calculated Average %D/Drift = 8.81411
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

5B

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECI

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Lab File ID: 2080312/d3475 DFTPP Injection Date: 03/12/08 Time: 1029

GC Column: RTX-5MS-30 ID: .25 (mm) Analytical Batch: 369042

Instrument ID: MSSV5

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*
51	30.0-60.0% of mass 198	36.23 ( ) ( )
68	Less thab 2% of mass 69	.59 (1.21) (1)
69	Mass 69 relative abundance	49.22 ( ) ( )
70	Less than 2.0% of mass 69	.16 (.34) (1)
127	40.0-60.0% of mass 198	48.55 ( ) ( )
197	Less than 1.0% of mass 198	.73 ( ) ( )
198	Base Peak, 100% relative abundance	100 ( ) ( )
199	5.0-9.0% of mass 198	6.74 ( ) ( )
275	10.0-30.0% of mass 198	27.48 ( ) ( )
365	Greater than 1.0% of mass 198	3.43 ( ) ( )
441	Present, but less than mass 443	13.13 ( ) ( )
442	40.0-100.0% of mass 198	91.61 ( ) ( )
443	17.0-23.0% of mass 442	17.01 (18.57) (2)

(1)-Value is % mass 69 (2)-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	*LAB SAMPLE ID*	*LAB FILE ID*	*DATE ANALYZED*	*TIME ANALYZED*
1.	STD050	1400	2080312/d3477	03/12/08	1113
2.	LCS580709	580709	2080312/d3478	03/12/08	1142
3.	LCSD580710	580710	2080312/d3479	03/12/08	1157
4.	MPT04-SB04-05-022908	20803042722	2080312/d3480	03/12/08	1211
5.	MPT04-SB04-11-022908	20803042725	2080312/d3481	03/12/08	1225
6.	MPT05-SS05-01-030308	20803042726	2080312/d3482	03/12/08	1240
7.	MPT05-SS07-01-030308	20803042728	2080312/d3483	03/12/08	1254
8.	MPT05-SS09-01-030308	20803042730	2080312/d3484	03/12/08	1309
9.	MPT05-SS10-01-030308	20803042731	2080312/d3485	03/12/08	1323
10.	MPT05-SS11-01-030308	20803042732	2080312/d3486	03/12/08	1338
11.	MPT05-SB02-06-022808	20803042704	2080312/d3492	03/12/08	1546

FORM V SV

5B

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECI

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Lab File ID: 2080312/d3475 DFTPP Injection Date: 03/12/08 Time: 1029

GC Column: RTX-5MS-30 ID: .25 (mm) Analytical Batch: 369042

Instrument ID: MSSV5

12.	MPT05-SB02-08-022808	20803042705	2080312/d3493	03/12/08	1600
13.	MPT05-SB03-04-022808	20803042707	2080312/d3494	03/12/08	1615
14.	MPT05-SB04-06-022808	20803042711	2080312/d3495	03/12/08	1629
15.	MPT04-SB02-07-022908	20803042715	2080312/d3496	03/12/08	1644
16.	MPT04-SB03-07-022908	20803042719	2080312/d3497	03/12/08	1658
17.	MPT04-SB03-09-022908	20803042720	2080312/d3498	03/12/08	1713
18.	MPT04-SB03-11-022908	20803042721	2080312/d3499	03/12/08	1727
19.	MPT04-SB04-07-022908	20803042723	2080312/d3500	03/12/08	1742

FORM V SV

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSSV5.i Injection Date: 12-MAR-2008 11:13
Lab File ID: d3477.d Init. Cal. Date(s): 08-MAR-2008 08-MAR-2008
Analysis Type: WATER Init. Cal. Times: 08:12 10:09
Lab Sample ID: 1400 Quant Type: ISTD
Method: /var/chem/MSSV5.i/2080312.s.b/8270CE_05dod.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
38 2-Chloronaphthalene	1.07123	1.04936	1.04936	0.050	-2.04177	30.00000	Averaged
39 2-Nitroaniline	0.38431	0.39555	0.39555	0.050	2.92528	30.00000	Averaged
40 Dimethylphthalate	1.14583	1.14546	1.14546	0.050	-0.03185	30.00000	Averaged
41 2,6-Dinitrotoluene	0.25992	0.26932	0.26932	0.050	3.61574	30.00000	Averaged
42 Acenaphthylene	51.43113	50.00000	1.51038	0.050	2.86227	30.00000	Linear
43 3-Nitroaniline	49.49609	50.00000	0.27922	0.050	-1.00783	30.00000	Quadratic
45 Acenaphthene +	1.04921	1.07836	1.07836	0.050	2.77833	20.00000	Averaged
46 2,4-Dinitrophenol ++	0.19509	0.19708	0.19708	0.050	1.01887	30.00000	Averaged
49 4-Nitrophenol ++	0.15707	0.15605	0.15605	0.050	-0.65218	30.00000	Averaged
47 Dibenzofuran	1.52199	1.55438	1.55438	0.050	2.12782	30.00000	Averaged
48 2,4-Dinitrotoluene	0.35079	0.35894	0.35894	0.050	2.32584	30.00000	Averaged
50 Diethylphthalate	52.98597	50.00000	1.27757	0.050	5.97194	30.00000	Quadratic
52 4-Chlorophenyl-phenylether	0.59853	0.58669	0.58669	0.050	-1.97779	30.00000	Averaged
51 Fluorene	1.16177	1.20025	1.20025	0.050	3.31180	30.00000	Averaged
53 4-Nitroaniline	0.27423	0.27785	0.27785	0.050	1.31701	30.00000	Averaged
54 4,6-Dinitro-o-cresol	0.13576	0.14046	0.14046	0.050	3.46289	30.00000	Averaged
55 N-nitrosodiphenylamine (1)+	0.49982	0.50495	0.50495	0.050	1.02619	20.00000	Averaged
56 Azobenzene	1.05454	1.04353	1.04353	0.050	-1.04400	30.00000	Averaged
$ 57 2,4,6-Tribromophenol	0.18427	0.19684	0.19684	0.050	6.82287	30.00000	Averaged
58 4-Bromophenyl-phenylether	0.18526	0.17943	0.17943	0.050	-3.14833	30.00000	Averaged
59 Hexachlorobenzene	0.23769	0.22272	0.22272	0.050	-6.29924	30.00000	Averaged
60 Pentachlorophenol +	0.12564	0.14231	0.14231	0.050	13.26597	20.00000	Averaged
62 Phenanthrene	0.95566	0.93810	0.93810	0.050	-1.83765	30.00000	Averaged
63 Anthracene	0.94996	0.93229	0.93229	0.050	-1.86009	30.00000	Averaged
64 Carbazole	0.87536	0.86895	0.86895	0.050	-0.73166	30.00000	Averaged
65 Di-n-butylphthalate	1.01089	1.03475	1.03475	0.050	2.36085	30.00000	Averaged
67 Fluoranthene +	0.96858	0.95832	0.95832	0.050	-1.05914	20.00000	Averaged
68 Benzidine	0.12334	0.10316	0.10316	0.050	-16.35723	30.00000	Averaged
69 Pyrene	1.29956	1.28871	1.28871	0.050	-0.83435	30.00000	Averaged
$ 70 Terphenyl-d14	0.88351	0.87204	0.87204	0.050	-1.29778	30.00000	Averaged
71 Butylbenzylphthalate	0.55327	0.55319	0.55319	0.050	-0.01547	30.00000	Averaged
73 3,3'-Dichlorobenzidine	0.41475	0.38816	0.38816	0.050	-6.41074	30.00000	Averaged
72 Benzo(a)anthracene	1.12609	1.02458	1.02458	0.050	-9.01464	30.00000	Averaged
76 bis(2-Ethylhexyl)phthalate	0.73779	0.71219	0.71219	0.050	-3.47089	30.00000	Averaged
75 Chrysene	1.23774	1.22070	1.22070	0.050	-1.37621	30.00000	Averaged
77 Di-n-octylphthalate +	1.29249	1.12021	1.12021	0.050	-13.32924	20.00000	Averaged

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSSV5.i Injection Date: 12-MAR-2008 11:13
Lab File ID: d3477.d Init. Cal. Date(s): 08-MAR-2008 08-MAR-2008
Analysis Type: WATER Init. Cal. Times: 08:12 10:09
Lab Sample ID: 1400 Quant Type: ISTD
Method: /var/chem/MSSV5.i/2080312.s.b/8270CE_05dod.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
78 Benzo(b)fluoranthene	50.39054	50.00000	1.42573	0.050	0.78108	30.00000	Linear	
79 Benzo(k)fluoranthene	1.82587	1.88962	1.88962	0.050	3.49128	30.00000	Averaged	
80 Benzo(a)pyrene +	48.81840	50.00000	1.39330	0.050	-2.36321	30.00000	Linear	
82 Indeno(1,2,3-cd)pyrene	54.32789	50.00000	1.16395	0.050	8.65579	30.00000	Quadratic	
83 Dibenzo(a,h)anthracene	43.56440	50.00000	1.40732	0.050	-12.87120	30.00000	Linear	
84 Benzo(g,h,i)perylene	45.59831	50.00000	1.68947	0.050	-8.80339	30.00000	Linear	
M 66 Total Methylphenol	1.48555	1.69740	1.69740	0.050	14.26033	30.00000	Averaged	
91 Acetophenone	1.05880	1.21056	1.21056	0.050	14.33394	30.00000	Averaged	
155 Benzaldehyde	0.14253	++++	0.00000	0.050	++++	30.00000	Averaged	<-
156 Caprolactam	0.10002	0.10549	0.10549	0.050	5.46654	30.00000	Averaged	
157 Biphenyl	0.73735	0.71107	0.71107	0.050	-3.56384	30.00000	Averaged	
158 Atrazine	48.58577	50.00000	0.14408	0.050	-2.82845	30.00000	Quadratic	
174 1,4-Dioxane	0.17809	0.19185	0.19185	0.050	7.72861	30.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 5.83663
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab File ID (Standard): 2080310/d3363d

Date Analyzed: 03/10/08 Time: 1057

Instrument ID: MSSV5

GC Column: RTX-5MS-30 ID: .25 (mm)

Analytical Batch: 368921

Method: SW-846 8270

	IS 1		IS 2		IS 3	
	Area	RT	Area	RT	Area	RT
STANDARD	876589	1.86	443094	2.94	755519	3.82

	EPA Sample No.	#	#	#	#	#	#
1.	MB580171	1524437	1.86	705805	2.94	1121845	3.82
2.	MPT05-SB04-10-022808	987391	1.86	465396	2.93	760052	3.81
3.	MPT04-SB02-05-022908	913733	1.86	429384	2.94	751046	3.81
4.	LCS580172	1210970	1.86	560134	2.94	864346	3.81
5.	LCSD580173	779761	1.86	336999	2.94	533083	3.81
6.	MPT05-SB01-04-022808	703948	1.85	313570	2.93	542814	3.81
7.	MPT05-SS02-01-022808	675994	1.86	295530	2.93	496648	3.81
8.	MPT05-SB02-04-022808	609534	1.86	288019	2.93	560082	3.81
9.	MPT05-SB02-10-022808	763445	1.86	315445	2.94	536721	3.82
10.	MPT05-SB03-06-022808	786454	1.86	335876	2.93	514181	3.81
11.	MPT05-SB04-04-022808	744837	1.86	354080	2.94	636658	3.81

IS 1 ID : Naphthalene-d8
IS 2 ID : Acenaphthene-d10
IS 3 ID : Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREALOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 2080310/d3363d Date Analyzed: 03/10/08 Time: 1057

Instrument ID: MSSV5 GC Column: RTX-5MS-30 ID: .25 (mm)

Method: SW-846 8270

		IS 4			IS 5			IS 6		
		Area	RT		Area	RT		Area	RT	
	STANDARD	507376	6.4		649108	5.42		215035	.95	
		#	#		#	#		#	#	
1.	MB580171	577965	6.39		727189	5.41		359075	.95	
2.	MPT05-SB04-10-022808	940054	6.4		732995	5.41		253576	.95	
3.	MPT04-SB02-05-022908	957311	6.4		712342	5.41		236805	.95	
4.	LCS580172	534926	6.39		569888	5.42		317182	.95	
5.	LCSD580173	478943	6.39		417158	5.42		206606	.95	
6.	MPT05-SB01-04-022808	590041	6.39		545963	5.41		185827	.95	
7.	MPT05-SS02-01-022808	669378	6.39		541417	5.41		184564	.95	
8.	MPT05-SB02-04-022808	904353	6.39		656694	5.41		155662	.95	
9.	MPT05-SB02-10-022808	1006057	6.4		663149	5.42		210208	.95	
10.	MPT05-SB03-06-022808	818301	6.39		584537	5.41		204530	.95	
11.	MPT05-SB04-04-022808	1005055	6.4		730541	5.42		187087	.95	

IS 4 ID : Perylene-d12
IS 5 ID : Chrysene-d12
IS 6 ID : 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREALOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.
* Values outside of QC limits.

FORM II SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab File ID (Standard): 2080311/d3426

Date Analyzed: 03/11/08 Time: 1243

Instrument ID: MSSV5

GC Column: RTX-5MS-30 ID: .25 (mm)

Analytical Batch: 368956

Method: SW-846 8270

	IS 1		IS 2		IS 3	
	Area	RT	Area	RT	Area	RT
STANDARD	876589	1.86	443094	2.94	755519	3.82

	EPA Sample No.	#		#		#		#		#		#
1.	MPT05-SS04-01-022808	1398750		1.85		561493		2.92		748510		3.8	
2.	MPT05-SS12-01-030308	1573318		1.85		648785		2.93		840184		3.8	
3.	MPT05-SB04-08-022808	1362011		1.85		552642		2.92		754724		3.8	
4.	MPT04-SB02-09-022908	1539507		1.85		643515		2.93		895646		3.8	
5.	MPT04-SB03-05-022908	1709041		1.85		716693		2.93		996855		3.8	
6.	MPT04-SB02-11-022908	1643860		1.85		720757		2.93		1046170		3.8	
7.	MB580708	1497708		1.84		637286		2.93		945985		3.8	
8.	MPT04-SB04-09-022908	1509478		1.85		630341		2.93		808448		3.8	
9.	MPT05-SS06-01-030308	1718181		1.85		719134		2.93		935336		3.8	
10.	MPT05-SS08-01-030308	1576584		1.84		652171		2.93		860794		3.8	

IS 1 ID : Naphthalene-d8
IS 2 ID : Acenaphthene-d10
IS 3 ID : Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREALOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.
* Values outside of QC limits.

FORM VIIII SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): 2080311/d3426 Date Analyzed: 03/11/08 Time: 1243

Instrument ID: MSSV5 GC Column: RTX-5MS-30 ID: .25 (mm)

Method: SW-846 8270

		IS 4			IS 5			IS 6				
		Area		RT	Area		RT	Area		RT		
	STANDARD	507376		6.4	649108		5.42	215035		.95		
			#	#		#	#		#		#	
1.	MPT05-SS04-01-022808	614395		6.38	464080		5.4	358410		.94		
2.	MPT05-SS12-01-030308	887015		6.38	555977		5.4	400652		.94		
3.	MPT05-SB04-08-022808	561324		6.38	458375		5.4	347332		.94		
4.	MPT04-SB02-09-022908	607532		6.38	513788		5.4	381563		.94		
5.	MPT04-SB03-05-022908	542993		6.38	504740		5.4	430623	*	.94		
6.	MPT04-SB02-11-022908	607183		6.38	570830		5.4	420368		.94		
7.	MB580708	537928		6.38	523787		5.4	373314		.94		
8.	MPT04-SB04-09-022908	719928		6.38	482871		5.4	382963		.94		
9.	MPT05-SS06-01-030308	940536		6.38	594069		5.4	447035	*	.94		
10.	MPT05-SS08-01-030308	836589		6.38	546189		5.4	401404		.94		

IS 4 ID : Perylene-d12
IS 5 ID : Chrysene-d12
IS 6 ID : 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREALOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Lab File ID (Standard): 2080312/d3477

Date Analyzed: 03/12/08 Time: 1113

Instrument ID: MSSV5

GC Column: RTX-5MS-30 ID: .25 (mm)

Analytical Batch: 369042

Method: SW-846 8270

	IS 1		IS 2		IS 3	
	Area	RT	Area	RT	Area	RT
STANDARD	876589	1.86	443094	2.94	755519	3.82

	EPA Sample No.		#		#		#		#		#		#
1.	LCS580709	945657		1.84		408157		2.92		626219		3.8	
2.	MPT05-SB02-06-022808	777346		1.84		401263		2.92		696989		3.8	
3.	MPT05-SB02-08-022808	779568		1.84		372643		2.92		663029		3.8	
4.	MPT05-SB03-04-022808	647334		1.84		341781		2.92		640910		3.8	
5.	MPT05-SB04-06-022808	893402		1.84		415601		2.92		667308		3.8	
6.	MPT04-SB02-07-022908	780550		1.84		383564		2.92		695711		3.8	
7.	MPT04-SB03-07-022908	849294		1.84		410703		2.92		694540		3.8	
8.	MPT04-SB03-09-022908	818537		1.84		391882		2.92		663216		3.8	
9.	MPT04-SB03-11-022908	790810		1.84		388501		2.92		661230		3.8	
10.	MPT04-SB04-07-022908	750695		1.84		386535		2.92		686892		3.8	
11.	LCSD580710	853922		1.84		409770		2.92		679805		3.8	
12.	MPT04-SB04-05-022908	1145817		1.84		553725		2.92		936599		3.8	
13.	MPT04-SB04-11-022908	677145		1.84		311793		2.92		558843		3.8	
14.	MPT05-SS05-01-030308	906628		1.84		414135		2.92		675528		3.8	
15.	MPT05-SS07-01-030308	819371		1.84		389252		2.92		636245		3.8	
16.	MPT05-SS09-01-030308	944083		1.84		440349		2.92		749155		3.8	
17.	MPT05-SS10-01-030308	772349		1.84		355376		2.92		580104		3.8	
18.	MPT05-SS11-01-030308	623048		1.84		292038		2.92		541379		3.8	

IS 1 ID : Naphthalene-d8
IS 2 ID : Acenaphthene-d10
IS 3 ID : Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREALOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Lab File ID (Standard): 2080312/d3477 Date Analyzed: 03/12/08 Time: 1113

Instrument ID: MSSV5 GC Column: RTX-5MS-30 ID: .25 (mm)

Method: SW-846 8270

		IS 4			IS 5			IS 6		
		Area	RT		Area	RT		Area	RT	
	STANDARD	507376	6.4		649108	5.42		215035	.95	
		#	#		#	#		#	#	
1.	LCS580709	381047	6.37		407389	5.4		231378	.94	
2.	MPT05-SB02-06-022808	940053	6.37		699603	5.39		168383	.93	
3.	MPT05-SB02-08-022808	912307	6.37		677898	5.4		172228	.93	
4.	MPT05-SB03-04-022808	944641	6.37		712997	5.39		139576	.93	
5.	MPT05-SB04-06-022808	886552	6.37		652548	5.39		204535	.93	
6.	MPT04-SB02-07-022908	988435	6.37		733683	5.39		173253	.93	
7.	MPT04-SB03-07-022908	913953	6.37		683135	5.39		185666	.93	
8.	MPT04-SB03-09-022908	959036	6.37		695912	5.39		187622	.93	
9.	MPT04-SB03-11-022908	904001	6.37		675214	5.39		181635	.93	
10.	MPT04-SB04-07-022908	967419	6.37		707978	5.4		162372	.93	
11.	LCSD580710	462058	6.37		477871	5.4		189405	.93	
12.	MPT04-SB04-05-022908	435599	6.36		618547	5.39		244549	.93	
13.	MPT04-SB04-11-022908	627570	6.37		543382	5.39		158714	.93	
14.	MPT05-SS05-01-030308	604165	6.36		514554	5.39		208364	.93	
15.	MPT05-SS07-01-030308	638304	6.36		556320	5.39		189877	.93	
16.	MPT05-SS09-01-030308	620713	6.36		587123	5.39		219848	.93	
17.	MPT05-SS10-01-030308	713900	6.36		557124	5.39		178845	.93	
18.	MPT05-SS11-01-030308	703405	6.36		571738	5.39		142599	.93	

IS 4 ID : Perylene-d12

IS 5 ID : Chrysene-d12

IS 6 ID : 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREALOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.

* Values outside of QC limits.

FORM II SV-1

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB580126

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 580126

SAS No.: SDG No.: 208030427

Matrix: Soil Sulfur Cleanup: (Y/N) N

Date Extracted: 03/08/08

Date Analyzed (1): 03/11/08 Time (1): 1952

Date Analyzed (2): Time (2):

Instrument ID (1): GCS18A

Instrument ID (2):

GC Column (1): RTX-35MS-3 ID: .25 (mm)

GC Column (2): ID: (mm)

Method: SW-846 8082

Prep Batch: 368529 Analytical Batch: 369050

Lab File ID: 2080311/sv18a0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS580127	580127	03/11/08	2010		
2.	LCSD580128	580128	03/11/08	2027		
3.	MPT05-SB01-04-022808	20803042701	03/11/08	2121		
4.	MPT05-SB02-04-022808	20803042703	03/11/08	2139		
5.	MPT05-SB02-06-022808	20803042704	03/11/08	2214		
6.	MPT05-SB02-08-022808	20803042705	03/11/08	2233		
7.	MPT05-SB02-10-022808	20803042706	03/11/08	2308		
8.	MPT05-SB04-06-022808	20803042711	03/12/08	0055		
9.	MPT05-SB04-08-022808	20803042712	03/12/08	0113		
10.	MPT05-SB04-10-022808	20803042713	03/12/08	0242		
11.	MPT05-SB04-10-022808MS	580129	03/12/08	0318		
12.	MPT05-SB04-10-02...MSD	580130	03/12/08	0335		
13.	MPT05-SB03-04-022808	20803042707	03/12/08	1340		
14.	MPT05-SB03-06-022808	20803042708	03/12/08	1358		
15.	MPT05-SB04-04-022808	20803042710	03/12/08	1415		

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-35MS-3 ID: .25 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 368529 Analytical Batch: 369050

Sample ID: MB580126
Contract:
SAS No.: SDG No.: 208030427
Lab Sample ID: 580126
Date Collected: Time:
Date Received:
Date Extracted: 03/08/08
Date Analyzed: 03/11/08 Time: 1952
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS18A
Lab File ID: 2080311/sv18a009

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
11097-69-1	Aroclor-1254	9.52	U	9.52	40.0

FORM I ORG-1

2F

ORGANICS SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

GC Column (1) : RTX-35MS-3 ID: .25 (mm) GC Cloumn (2) : ID: (mm)

Method: SW-846 8082

EPA SAMPLE NO.	SMC1 1-(1)	#	1-(2)	#	SMC2 2-(1)	#	2-(2)	#	TOT OUT
1. MPT05-SB01-04-022808	86								0
2. MPT05-SB02-04-022808	89								0
3. MPT05-SB02-06-022808	61								0
4. MPT05-SB02-08-022808	107								0
5. MPT05-SB02-10-022808	109								0
6. MPT05-SB03-04-022808	0	D							0
7. MPT05-SB03-06-022808	0	D							0
8. MPT05-SB04-04-022808	0	D							0
9. MPT05-SB04-06-022808	103								0
10. MPT05-SB04-08-022808	103								0
11. MPT05-SB04-10-022808	98								0
12. MB580126	97								0
13. LCS580127	95								0
14. LCSD580128	95								0
15. MPT05-SB04-10-022808MS	101								0
16. MPT05-SB04-10-02...MSD	106								0

	CONTROL LIMITS	
SMC 1 : Decachlorobiphenyl	60	125
SMC 2 :		

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

FORM II ORG-2

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: MPT05-SB04-10-022808

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Contract: Method: SW-846 8082

Prep Batch: 368529 Analytical Batch: 369050

Spike HSN : 580129

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
Aroclor-1254	ug/kg	210	0	204	97		40 - 160

Spike Dupe HSN : 580130

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Aroclor-1254	ug/kg	210	208	99		2		40 - 160	0 - 50

RPD : 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

FORM III ORG-2

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 208030427

Contract: Method: SW-846 8082

Prep Batch: 368529 Analytical Batch: 369050

Spike HSN : 580127

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Aroclor-1254	ug/kg	167	0	178	107		60 - 140

Spike Dupe HSN : 580128

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Aroclor-1254	ug/kg	167	177	106		.6		60 - 140	0 - 40

RPD : 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

FORM III ORG-2

Report Date : 13-Mar-2008 14:50

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAR-2008 17:47
End Cal Date : 11-MAR-2008 19:16
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv18a.i/2080311.b/125435MS.m
Cal Date : 12-Mar-2008 13:49 tls
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv18a.i/2080311.b/sv18a003.d
Level 2: /var/chem/gcsv18a.i/2080311.b/sv18a004.d
Level 3: /var/chem/gcsv18a.i/2080311.b/sv18a005.d
Level 4: /var/chem/gcsv18a.i/2080311.b/sv18a006.d
Level 5: /var/chem/gcsv18a.i/2080311.b/sv18a007.d
Level 6: /var/chem/gcsv18a.i/2080311.b/sv18a002.d

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ RRF	% RSD
	2 alpha-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	3 gamma-BHC (Lindane)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	4 Heptachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	5 Aldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	6 beta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	7 delta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	8 Heptachlor epoxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	9 Endosulfan I	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	10 gamma-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	11 alpha-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	12 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	13 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	14 Endrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	15 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	16 Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	17 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	18 Endrin aldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	19 Methoxychlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	20 Endosulfan sulfate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	21 Endrin ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	23 AR 1016-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 13-Mar-2008 14:50

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAR-2008 17:47
End Cal Date : 11-MAR-2008 19:16
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv18a.i/2080311.b/125435MS.m
Cal Date : 12-Mar-2008 13:49 tls
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ RRF	% RSD
	24 AR 1016-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	25 AR 1016-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	26 AR 1016-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	27 AR 1016-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	28 AR 1260-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	29 AR 1260-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	30 AR 1260-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	31 AR 1260-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	32 AR 1260-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	33 AR 1260-AVGII	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	34 AR 1260-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	35 AR 1260-PEAK6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	36 AR 1260-PEAK7	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	37 AR 1221-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	38 AR 1221-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	39 AR 1221-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	40 AR 1221-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	41 AR 1221-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	42 AR 1232-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	43 AR 1232-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	44 AR 1232-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	45 AR 1232-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	46 AR 1232-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	47 AR 1242-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	48 AR 1242-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	49 AR 1242-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	50 AR 1242-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	51 AR 1242-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	52 AR 1248-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 13-Mar-2008 14:50

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAR-2008 17:47
End Cal Date : 11-MAR-2008 19:16
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv18a.i/2080311.b/125435MS.m
Cal Date : 12-Mar-2008 13:49 tls
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ RRF	% RSD
	53 AR 1248-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	54 AR 1248-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	55 AR 1248-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	56 AR 1248-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	57 AR 1254-AVG	1223822	1254512	1286684	1317786	1306768	1236762	1271056	3.023
	58 AR 1254-PEAK1	115431	119315	120076	120423	117112	119775	118689	1.668
	59 AR 1254-PEAK2	106138	113120	115844	116773	113466	110691	112672	3.422
	60 AR 1254-PEAK3	213977	222862	229251	235505	232727	219371	225616	3.675
	61 AR 1254-PEAK4	463976	472172	490551	509432	509194	472985	486385	4.063
	175 AR 1254-PEAK5	324301	327043	330962	335652	334269	313941	327694	2.435
M	62 TOXAPHENE-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	63 TOXAPHENE-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	64 TOXAPHENE-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	65 TOXAPHENE-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	66 TOXAPHENE-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	67 TOXAPHENE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	68 CHLORDANE-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	69 CHLORDANE-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	70 CHLORDANE-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	71 CHLORDANE-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	72 CHLORDANE-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	73 CHLORDANE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	74 AR 1268-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	75 AR 1268-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	76 AR 1268-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	77 AR 1268-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	78 AR 1268 PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	79 AR 1262-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	80 AR 1262-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 13-Mar-2008 14:50

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAR-2008 17:47
End Cal Date : 11-MAR-2008 19:16
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv18a.i/2080311.b/125435MS.m
Cal Date : 12-Mar-2008 13:49 tls
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ RRF	% RSD
81 AR 1262-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 AR 1262-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 AR 1262-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 Diallate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 Mirix	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	8325830	8548909	8913600	9003393	8879247	8120989	8631995	4.145
$ 22 Decachlorobiphenyl	6365286	6163417	6063780	6192592	6182035	6608030	6262523	3.118

Data File: /var/chem/gcsv18a.i/2080311.b/sv18a012.d
Report Date: 14-Mar-2008 09:31

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv18a.i Injection Date: 11-MAR-2008 20:45
Lab File ID: sv18a012.d Init. Cal. Date(s): 11-MAR-2008 11-MAR-2008
Analysis Type: WATER Init. Cal. Times: 17:47 19:16
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv18a.i/2080311.b/125435MS.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	8631995	8509846	0.010	1.41507	20.00000	Averaged
$ 22 Decachlorobiphenyl	6262523	5472950	0.010	12.60790	20.00000	Averaged
M 57 AR 1254-AVG	1271056	1265792	0.010	0.41408	20.00000	Averaged
58 AR 1254-PEAK1	118689	117842	0.010	0.71343	20.00000	Averaged
59 AR 1254-PEAK2	112672	114180	0.010	-1.33824	20.00000	Averaged
60 AR 1254-PEAK3	225616	225998	0.010	-0.16947	20.00000	Averaged
61 AR 1254-PEAK4	486385	483453	0.010	0.60277	20.00000	Averaged
175 AR 1254-PEAK5	327694	324320	0.010	1.02988	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.28636
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv18a.i/2080311.b/sv18a030.d
Report Date: 14-Mar-2008 09:31

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv18a.i Injection Date: 12-MAR-2008 02:06
Lab File ID: sv18a030.d Init. Cal. Date(s): 11-MAR-2008 11-MAR-2008
Analysis Type: WATER Init. Cal. Times: 17:47 19:16
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv18a.i/2080311.b/125435MS.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	8631995	8695199	0.010	-0.73221	20.00000	Averaged
$ 22 Decachlorobiphenyl	6262523	5726197	0.010	8.56407	20.00000	Averaged
M 57 AR 1254-AVG	1271056	1235947	0.010	2.76219	20.00000	Averaged
58 AR 1254-PEAK1	118689	118082	0.010	0.51084	20.00000	Averaged
59 AR 1254-PEAK2	112672	110734	0.010	1.72059	20.00000	Averaged
60 AR 1254-PEAK3	225616	221229	0.010	1.94436	20.00000	Averaged
61 AR 1254-PEAK4	486385	471846	0.010	2.98915	20.00000	Averaged
175 AR 1254-PEAK5	327694	314056	0.010	4.16194	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.92317
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv18a.i/2080311.b/sv18a038.d
Report Date: 14-Mar-2008 09:32

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv18a.i Injection Date: 12-MAR-2008 04:29
Lab File ID: sv18a038.d Init. Cal. Date(s): 11-MAR-2008 11-MAR-2008
Analysis Type: WATER Init. Cal. Times: 17:47 19:16
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv18a.i/2080311.b/125435MS.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	8631995	8833260	0.010	-2.33161	20.00000	Averaged
$ 22 Decachlorobiphenyl	6262523	5914514	0.010	5.55701	20.00000	Averaged
M 57 AR 1254-AVG	1271056	1255967	0.010	1.18713	20.00000	Averaged
58 AR 1254-PEAK1	118689	119452	0.010	-0.64305	20.00000	Averaged
59 AR 1254-PEAK2	112672	113907	0.010	-1.09579	20.00000	Averaged
60 AR 1254-PEAK3	225616	225238	0.010	0.16723	20.00000	Averaged
61 AR 1254-PEAK4	486385	477032	0.010	1.92301	20.00000	Averaged
175 AR 1254-PEAK5	327694	320338	0.010	2.24492	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 1.89372
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv18a.i/2080311.b/sv18a041.d
Report Date: 14-Mar-2008 09:32

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv18a.i Injection Date: 12-MAR-2008 12:36
Lab File ID: sv18a041.d Init. Cal. Date(s): 11-MAR-2008 11-MAR-2008
Analysis Type: WATER Init. Cal. Times: 17:47 19:16
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv18a.i/2080311.b/125435MS.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	8631995	8538763	0.010	1.08007	20.00000	Averaged
$ 22 Decachlorobiphenyl	6262523	5453714	0.010	12.91508	20.00000	Averaged
M 57 AR 1254-AVG	1271056	1199799	0.010	5.60607	20.00000	Averaged
58 AR 1254-PEAK1	118689	118200	0.010	0.41131	20.00000	Averaged
59 AR 1254-PEAK2	112672	110167	0.010	2.22379	20.00000	Averaged
60 AR 1254-PEAK3	225616	214396	0.010	4.97307	20.00000	Averaged
61 AR 1254-PEAK4	486385	457085	0.010	6.02397	20.00000	Averaged
175 AR 1254-PEAK5	327694	299952	0.010	8.46607	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 5.21243
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv18a.i/2080311.b/sv18a045.d
Report Date: 14-Mar-2008 09:32

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv18a.i Injection Date: 12-MAR-2008 14:33
Lab File ID: sv18a045.d Init. Cal. Date(s): 11-MAR-2008 11-MAR-2008
Analysis Type: WATER Init. Cal. Times: 17:47 19:16
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv18a.i/2080311.b/125435MS.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	8631995	8089385	0.010	6.28603	20.00000	Averaged
$ 22 Decachlorobiphenyl	6262523	5252709	0.010	16.12472	20.00000	Averaged
M 57 AR 1254-AVG	1271056	1136267	0.010	10.60447	20.00000	Averaged
58 AR 1254-PEAK1	118689	109245	0.010	7.95623	20.00000	Averaged
59 AR 1254-PEAK2	112672	103471	0.010	8.16666	20.00000	Averaged
60 AR 1254-PEAK3	225616	203736	0.010	9.69788	20.00000	Averaged
61 AR 1254-PEAK4	486385	430814	0.010	11.42524	20.00000	Averaged
175 AR 1254-PEAK5	327694	289001	0.010	11.80777	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 10.25862
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Report Date : 13-Mar-2008 14:51

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAR-2008 18:05
End Cal Date : 11-MAR-2008 19:34
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv18b.i/2080311.b/1254XLB.m
Cal Date : 12-Mar-2008 11:49 tls
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv18b.i/2080311.b/sv18b003.d
Level 2: /var/chem/gcsv18b.i/2080311.b/sv18b004.d
Level 3: /var/chem/gcsv18b.i/2080311.b/sv18b005.d
Level 4: /var/chem/gcsv18b.i/2080311.b/sv18b006.d
Level 5: /var/chem/gcsv18b.i/2080311.b/sv18b007.d
Level 6: /var/chem/gcsv18b.i/2080311.b/sv18b002.d

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ RRF	% RSD
	2 alpha-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	3 gamma-BHC (Lindane)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	4 Heptachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	5 Aldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	6 beta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	7 delta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	8 Heptachlor epoxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	9 Endosulfan I	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	10 gamma-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	11 alpha-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	12 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	13 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	14 Endrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	15 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	16 Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	17 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	18 Endrin aldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	19 Methoxychlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	20 Endosulfan sulfate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	21 Endrin ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	23 AR 1016-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 13-Mar-2008 14:51

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAR-2008 18:05
End Cal Date : 11-MAR-2008 19:34
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv18b.i/2080311.b/1254XLB.m
Cal Date : 12-Mar-2008 11:49 tls
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ RRF	% RSD
	24 AR 1016-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	25 AR 1016-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	26 AR 1016-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	27 AR 1016-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	28 AR 1260-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	29 AR 1260-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	30 AR 1260-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	31 AR 1260-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	32 AR 1260-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	33 AR 1260-AVGII	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	34 AR 1260-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	35 AR 1260-PEAK6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	36 AR 1260-PEAK7	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	37 AR 1221-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	38 AR 1221-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	39 AR 1221-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	40 AR 1221-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	41 AR 1221-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	42 AR 1232-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	43 AR 1232-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	44 AR 1232-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	45 AR 1232-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	46 AR 1232-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	47 AR 1242-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	48 AR 1242-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	49 AR 1242-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	50 AR 1242-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	51 AR 1242-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	52 AR 1248-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 13-Mar-2008 14:51

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAR-2008 18:05
End Cal Date : 11-MAR-2008 19:34
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv18b.i/2080311.b/1254XLB.m
Cal Date : 12-Mar-2008 11:49 tls
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ RRF	% RSD
	53 AR 1248-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	54 AR 1248-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	55 AR 1248-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	56 AR 1248-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	57 AR 1254-AVG	1276844	1235391	1205907	1160816	1115088	1344856	1223150	6.713
	58 AR 1254-PEAK1	154700	150364	144518	138446	130652	161130	146635	7.570
	59 AR 1254-PEAK2	137758	128949	123536	118102	111760	151469	128596	11.142
	60 AR 1254-PEAK3	267325	261652	253696	244145	236160	278705	256947	6.054
	61 AR 1254-PEAK4	498636	483932	480628	464941	449740	526718	484099	5.533
	175 AR 1254-PEAK5	218426	210494	203529	195183	186777	226834	206874	7.159
M	62 TOXAPHENE-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	63 TOXAPHENE-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	64 TOXAPHENE-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	65 TOXAPHENE-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	66 TOXAPHENE-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	67 TOXAPHENE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	68 CHLORDANE-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	69 CHLORDANE-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	70 CHLORDANE-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	71 CHLORDANE-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	72 CHLORDANE-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	73 CHLORDANE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	74 AR 1268-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	75 AR 1268-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	76 AR 1268-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	77 AR 1268-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	78 AR 1268 PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	79 AR 1262-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	80 AR 1262-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Report Date : 13-Mar-2008 14:51

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAR-2008 18:05
End Cal Date : 11-MAR-2008 19:34
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv18b.i/2080311.b/1254XLB.m
Cal Date : 12-Mar-2008 11:49 tls
Curve Type : Average

Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ RRF	% RSD
81 AR 1262-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 AR 1262-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 AR 1262-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 Diallate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 Mirix	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	9687585	9670718	9735769	9482063	9005692	9806835	9564777	3.079
$ 22 Decachlorobiphenyl	7053918	6786540	6736728	6584538	6511663	7479521	6858818	5.213

Data File: /var/chem/gcsv18b.i/2080311.b/sv18b012.d
Report Date: 14-Mar-2008 09:34

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv18b.i
Lab File ID: sv18b012.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv18b.i/2080311.b/1254XLB.m

Injection Date: 11-MAR-2008 21:03
Init. Cal. Date(s): 11-MAR-2008 11-MAR-2008
Init. Cal. Times: 18:05 19:34
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	9564777	9296853	0.010	2.80116	20.00000	Averaged
$ 22 Decachlorobiphenyl	6858818	6337945	0.010	7.59422	20.00000	Averaged
M 57 AR 1254-AVG	1223150	1164249	0.010	4.81560	20.00000	Averaged
58 AR 1254-PEAK1	146635	140296	0.010	4.32312	20.00000	Averaged
59 AR 1254-PEAK2	128596	120526	0.010	6.27508	20.00000	Averaged
60 AR 1254-PEAK3	256947	246058	0.010	4.23780	20.00000	Averaged
61 AR 1254-PEAK4	484099	460593	0.010	4.85573	20.00000	Averaged
175 AR 1254-PEAK5	206874	196776	0.010	4.88117	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.97298
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv18b.i/2080311.b/sv18b030.d
Report Date: 14-Mar-2008 09:35

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv18b.i Injection Date: 12-MAR-2008 02:24
Lab File ID: sv18b030.d Init. Cal. Date(s): 11-MAR-2008 11-MAR-2008
Analysis Type: WATER Init. Cal. Times: 18:05 19:34
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv18b.i/2080311.b/1254XLB.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	9564777	9414547	0.010	1.57066	20.00000	Averaged
$ 22 Decachlorobiphenyl	6858818	6202775	0.010	9.56496	20.00000	Averaged
M 57 AR 1254-AVG	1223150	1172915	0.010	4.10702	20.00000	Averaged
58 AR 1254-PEAK1	146635	138970	0.010	5.22695	20.00000	Averaged
59 AR 1254-PEAK2	128596	119627	0.010	6.97403	20.00000	Averaged
60 AR 1254-PEAK3	256947	248303	0.010	3.36402	20.00000	Averaged
61 AR 1254-PEAK4	484099	470488	0.010	2.81164	20.00000	Averaged
175 AR 1254-PEAK5	206874	195527	0.010	5.48514	20.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.88805
Maximun Average %D/Drift = 20.00000
* Passed Average %D/Drift Test.

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE ____ OF ____

CLIENT NS Mayport		JOB NUMBER CTO 010	
SUBJECT PAH / PCB			
BASED ON 8270		DRAWING NUMBER	
BY EL Kelly	CHECKED BY	APPROVED BY	DATE

MPT05-5502-01-022808

$$\frac{60763 \times 40 \times 1000}{541417 \times 1.12609 \times 30.2 \times 0.904 \times 1} = 146 \text{ ug/Kg}$$

MPT05-5B01-04-022808

Aroclor-1254

$$\frac{703857786 \times 10}{127056 \times 30.2 \times 0.941 \times 1} = 194 \text{ ug/Kg}$$

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 208030427

Matrix: Soil

Sample wt/vol: 30.2 Units: g

Level: (low/med)

% Moisture: 9.6 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MPT05-SS02-01-022808

Contract:

Lab File ID: 2080310/d3388

Lab Sample ID: 20803042702

Date Collected: 02/28/08 Time: 1057

Date Received: 03/04/08

Date Extracted:

Date Analyzed: 03/10/08 Time: 1732

Dilution Factor: 1 Analyst: SAH

Prep Method:

Analytical Method: SW-846 8270

Instrument ID: MSSV5

Prep Batch: 368537 Analytical Batch: 368921

CAS NO.	COMPOUND	RESULT		MDL	RL
56-55-3	Benzo(a)anthracene	146	I	4.60	363
50-32-8	Benzo(a)pyrene	85.0	I	7.85	110
205-99-2	Benzo(b)fluoranthene	158	I	10.7	363
207-08-9	Benzo(k)fluoranthene	75.6	I	9.68	363
218-01-9	Chrysene	155	I	6.87	363
53-70-3	Dibenz(a,h)anthracene	119	I	5.99	363
193-39-5	Indeno(1,2,3-cd)pyrene	264	I	11.5	363

FORM I SV-1

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV5.i/2080310.s.b/d3388.d
Lab Smp Id: 20803042702 Client Smp ID: 20803042702
Inj Date : 10-MAR-2008 17:32
Operator : SAH Inst ID: MSSV5.i
Smp Info : 20803042702*4602*
Misc Info : 20803042702*MSSV~4846~*030427*30.2-1*368537*
Comment :
Method : /var/chem/MSSV5.i/2080310.s.b/8270CE_05dod.m
Meth Date : 12-Mar-2008 08:34 rjo Quant Type: ISTD
Cal Date : 08-MAR-2008 10:09 Cal File: d3237d.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tetra.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula:
Amt * DF * (Uf * Vt/(Vi * Ws * (100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.20000	Weigth of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
* 10 1,4-Dichlorobenzene-d4	152	0.952	0.952	(1.000)	184564	40.0000	
* 28 Naphthalene-d8	136	1.856	1.856	(1.000)	675994	40.0000	
* 44 Acenaphthene-d10	164	2.931	2.931	(1.000)	295530	40.0000	
* 61 Phenanthrene-d10	188	3.814	3.814	(1.000)	496648	40.0000	
* 74 Chrysene-d12	240	5.413	5.413	(1.000)	541417	40.0000	
* 81 Perylene-d12	264	6.392	6.392	(1.000)	669378	40.0000	
$ 19 Nitrobenzene-d5	82	1.385	1.385	(0.746)	373862	45.0067	1490
$ 37 2-Fluorobiphenyl	172	2.551	2.551	(0.870)	472017	48.8895	1620
$ 70 Terphenyl-d14	244	4.798	4.798	(0.886)	328206	27.4450	909
72 Benzo(a)anthracene	228	5.408	5.408	(0.999)	60763	3.98653	132
75 Chrysene	228	5.429	5.429	(1.003)	70665	4.21798	140

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-DEC-2007 12:10
End Cal Date : 08-MAR-2008 10:09
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV5.i/2080308.s.b/8270CE_05.m
Cal Date : 10-Mar-2008 16:07 rjo

Global Auto Calibration Mode = AUTO CALIBRATE ONLY

Compound	0.2000000 Level 1	1.0000 Level 2	2.0000 Level 3	10.0000 Level 4	50.0000 Level 5	80.0000 Level 6	Crv Type	Crv Org	Coefficients b	m1	m2	%RSD or R^2
	120.0000 Level 7	160.0000 Level 8	200.0000 Level 9									
69 Pyrene	+++++	1.33099	1.33599	1.45939	1.20881	1.25393						
	1.29884	1.26402	1.24449				AVG	N\A		1.29956		5.99413
71 Butylbenzylphthalate	+++++	0.41713	0.56413	0.57064	0.56189	0.57465						
	0.58192	0.58210	0.57371				AVG	N\A		0.55327		10.02949
72 Benzo(a)anthracene	+++++	1.11989	1.22038	1.06477	1.09056	1.08294						
	1.12171	1.15367	1.15478				AVG	N\A		1.12609		4.42945
73 3,3'-Dichlorobenzidine	+++++	0.37880	0.46529	0.47041	0.42107	0.41816						
	0.39696	0.37862	0.38868				AVG	N\A		0.41475		8.78766
75 Chrysene	1.46092	1.27882	1.29821	1.33917	1.15533	1.17854						
	1.14722	1.14046	1.14096				AVG	N\A		1.23774		9.15689
76 bis(2-Ethylhexyl)phthalate	+++++	0.55936	0.76203	0.73591	0.76518	0.77456						
	0.77193	0.76900	0.76437				AVG	N\A		0.73779		9.90417
77 Di-n-octylphthalate +	+++++	+++++	1.06787	1.18548	1.31743	1.36194						
	1.34397	1.37337	1.39737				AVG	N\A		1.29249		9.34550

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30.2 Units: g

Level: (low/med) LOW

% Moisture: 5.9 decanted: (Y/N)

GC Column: RTX-35MS-3 ID: .25 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 368529 Analytical Batch: 369050

Sample ID: MPT05-SB01-04-022808

Contract:

SAS No.: SDG No.: 208030427

Lab Sample ID: 20803042701

Date Collected: 02/28/08 Time: 1010

Date Received: 03/04/08

Date Extracted: 03/08/08

Date Analyzed: 03/11/08 Time: 2121

Dilution Factor: 1 Analyst: TLS

Prep Method: 3550B

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS18A

CONCENTRATION UNITS: ug/kg

Lab File ID: 2080311/sv18a014

CAS NO.	COMPOUND	RESULT		MDL	RL
11097-69-1	Aroclor-1254	194		10.0	42.2

FORM I ORG-1

Data File: /chem/gcsv18a.i/2080311.b/sv18a014.d
Report Date: 27-Mar-2008 14:02

GCAL, Inc.

Data file : /chem/gcsv18a.i/2080311.b/sv18a014.d
Lab Smp Id: 20803042701
Inj Date : 11-MAR-2008 21:21
Operator : tls Inst ID: gcsv18a.i
Smp Info : 20803042701*1
Misc Info :
Comment :
Method : /chem/gcsv18a.i/2080311.b/125435MS.m
Meth Date : 27-Mar-2008 14:00 rbm Quant Type: ESTD
Cal Date : 11-MAR-2008 19:16 Cal File: sv18a007.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1254S.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (uL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.20000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	CONCENTRATIONS FINAL (UG/KG)
$ 1 Tetrachloro-m-xylene	4.860	4.822	0.038	406155703	47.0524	15.6
$ 22 Decachlorobiphenyl	12.782	12.760	0.022	271310281	43.3228	14.3
M 57 AR 1254-AVG				703857786	553.758	183
58 AR 1254-PEAK1	8.727	8.706	0.021	68496630	577.112	191
59 AR 1254-PEAK2	9.051	9.030	0.021	66679359	591.800	196
60 AR 1254-PEAK3	9.135	9.114	0.021	119749795	530.769	176
61 AR 1254-PEAK4	9.274	9.253	0.021	267634879	550.253	182
175 AR 1254-PEAK5	9.465	9.437	0.028	181297123	553.251	183

Report Date : 13-Mar-2008 14:50

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAR-2008 17:47
End Cal Date : 11-MAR-2008 19:16
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv18a.i/2080311.b/125435MS.m
Cal Date : 12-Mar-2008 13:49 tls
Curve Type : Average

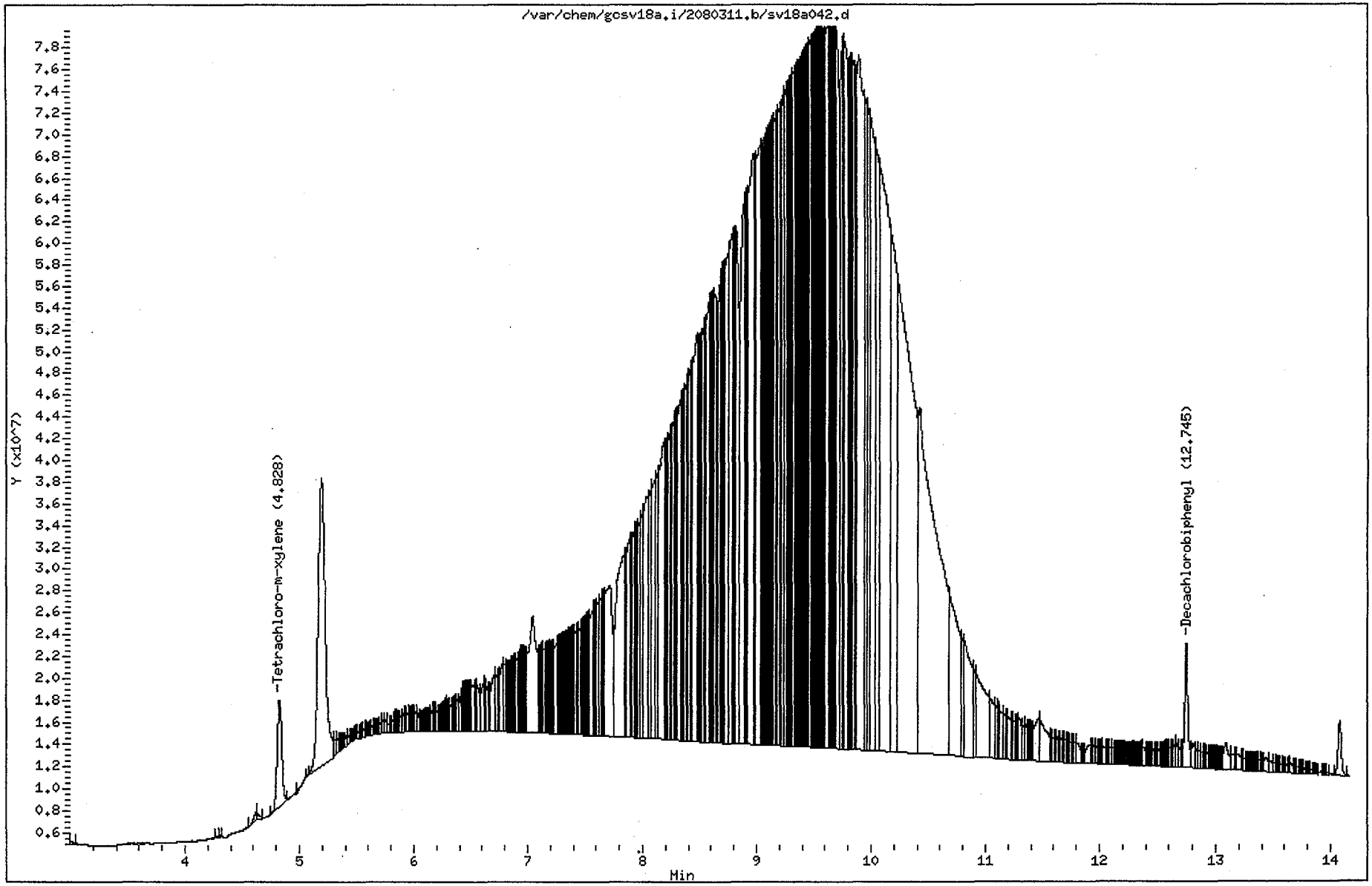
	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	2.500 Level 6	___ RRF	% RSD
	53 AR 1248-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	54 AR 1248-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	55 AR 1248-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	56 AR 1248-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	57 AR 1254-AVG	1223822	1254512	1286684	1317786	1306768	1236762	1271056	3.023
	58 AR 1254-PEAK1	115431	119315	120076	120423	117112	119775	118689	1.668
	59 AR 1254-PEAK2	106138	113120	115844	116773	113466	110691	112672	3.422
	60 AR 1254-PEAK3	213977	222862	229251	235505	232727	219371	225616	3.675
	61 AR 1254-PEAK4	463976	472172	490551	509432	509194	472985	486385	4.063
	175 AR 1254-PEAK5	324301	327043	330962	335652	334269	313941	327694	2.435
M	62 TOXAPHENE-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	63 TOXAPHENE-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	64 TOXAPHENE-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	65 TOXAPHENE-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	66 TOXAPHENE-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	67 TOXAPHENE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	68 CHLORDANE-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	69 CHLORDANE-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	70 CHLORDANE-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	71 CHLORDANE-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	72 CHLORDANE-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	73 CHLORDANE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	74 AR 1268-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	75 AR 1268-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	76 AR 1268-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	77 AR 1268-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	78 AR 1268 PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	79 AR 1262-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	80 AR 1262-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Hydrocarbons
called out in the narrative

Data File: /var/chem/gcsv18a.i/2080311.b/sv18a042.d
Date : 12-MAR-2008 13:40
Client ID:
Sample Info: 20803042707x10
Volume Injected (uL): 1.0
Column phase: RTX-35MS-30M

Instrument: gcsv18a.i

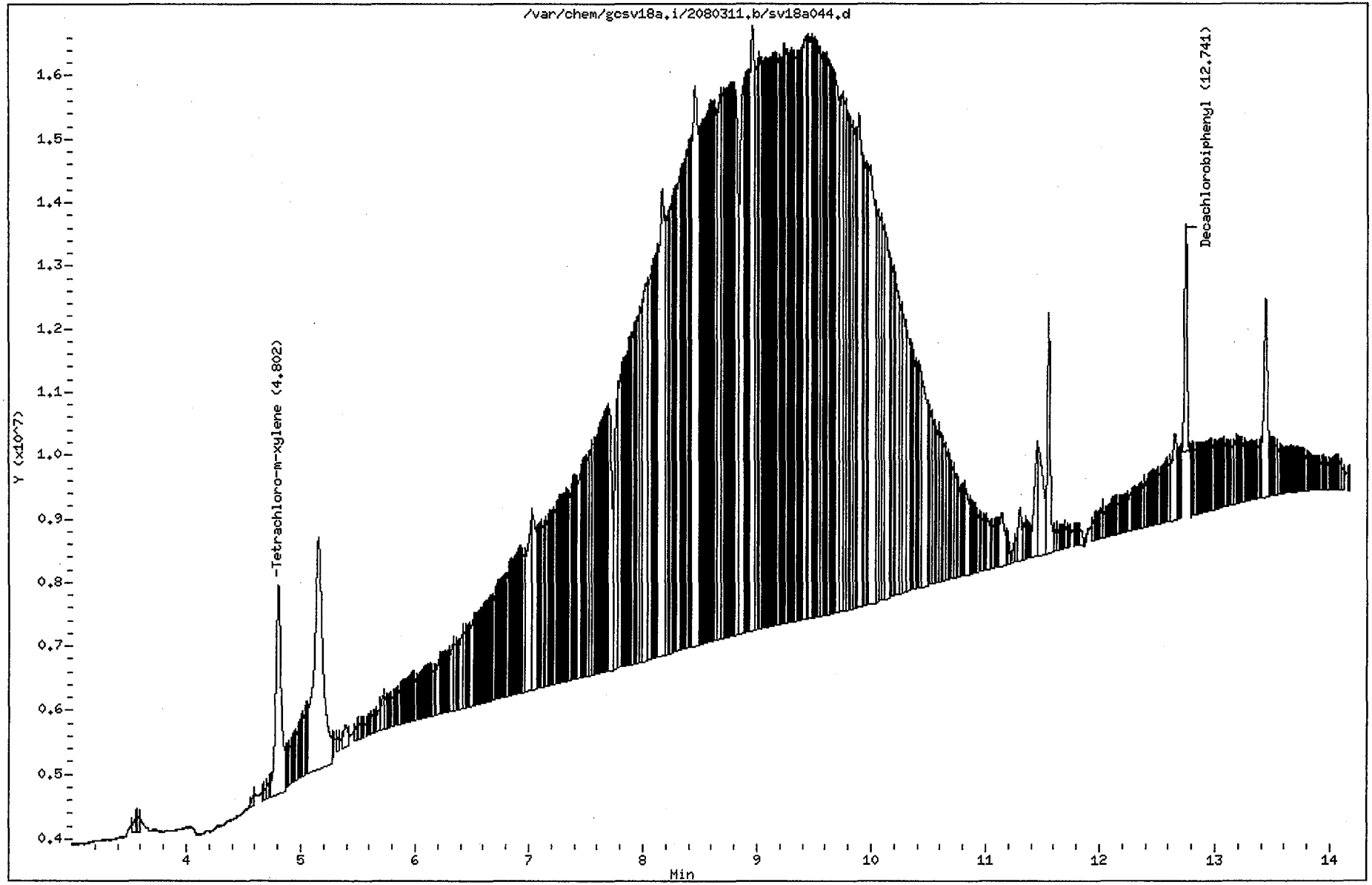
Operator: tls
Column diameter: 0.32

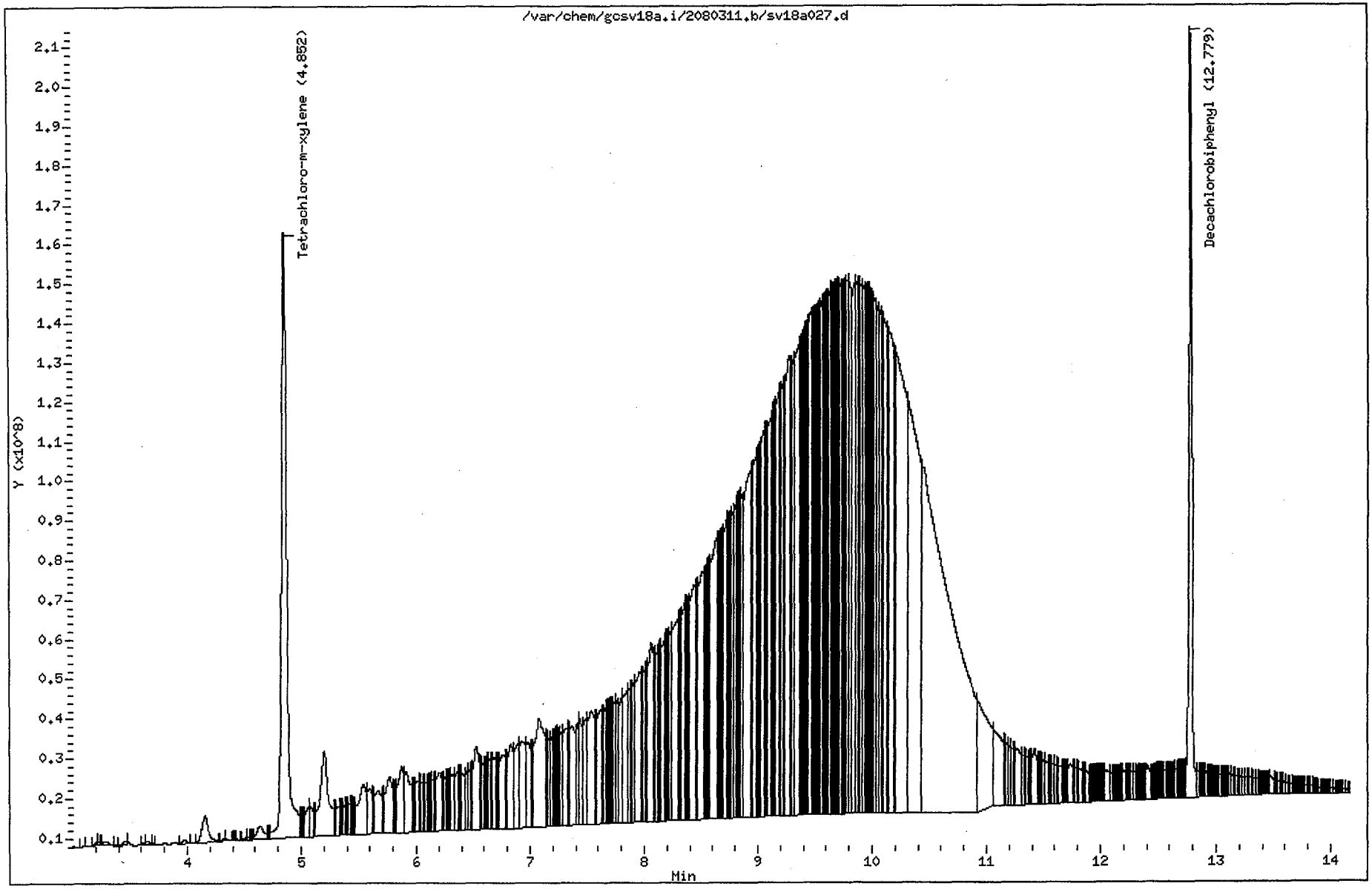


Data File: /var/chem/gcsv18a.i/2080311.b/sv18a044.d
Date : 12-MAR-2008 14:15
Client ID:
Sample Info: 20803042710*50
Volume Injected (uL): 1.0
Column phase: RTX-35MS-30M

Instrument: gcsv18a.i

Operator: tls
Column diameter: 0.32



Data File: /var/chem/gcsv18a.i/2080311.b/sv18a027.d
Date : 12-MAR-2008 01:13
Client ID:
Sample Info: 20803042712*1
Volume Injected (uL): 1.0
Column phase: RTX-35MS-30M

Instrument: gcsv18a.i
Operator: tls
Column diameter: 0.32